



20010-04USA.ST25

SEQUENCE LISTING

<110> POSCO
POSTECH
An, Gynheung
Ryu, Choong-Hwan
Han, Jong-Jin
Kang, Hong-Gyu
An, Kyungsook

<120> ORGAN PREFERENTIAL GENES IDENTIFIED BY T-DNA INSERTIONAL
MUTAGENESIS OF RICE

<130> 20010-04USA

<140> US 10/713,648

<141> 2003-11-14

<150> 60/427,166

<151> 2002-11-15

<160> 83

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 474

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (394)...(474)

<223> segment of the T-DNA insert in line 1B-115-22

<400> 1

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| aagcttaata | tattaggagt | agtaagctag | cgtgtgagga | agattcataa | ccatatatca | 60 |
| tccttaattag | cccttggat | ttagcttaat | cacatggcta | aggcacaacc | acccatccac | 120 |
| ttaactcttc | attactacgc | tagctacacg | aggagagtag | ctagctagta | caggccccgg | 180 |
| caagcataaa | tagcagcgtc | ccctgcttcc | ttcttctatc | gtcctcagct | catcatctgc | 240 |
| atgcagttca | ctgcacacca | cacagcttag | cttgctcagc | ttcactgatc | ttcttagctg | 300 |
| cagctacttc | actttgcata | gtttgatcga | actaaataac | tcaccaagtt | agctgtaatg | 360 |
| gccaaagctga | tcctcgccac | cttcgccgctc | gtgttaccag | gtaccagggtg | agttccattc | 420 |
| ttactaccac | ggtgctat | tttttgctat | gtggctaatt | acatgactaa | cttg | 474 |

<210> 2

<211> 194

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (104)...(194)

<223> segment of the T-DNA insert in line 1B-164-43

<400> 2

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| gtaatttttg | tttgattttc | tccgcagcca | tgggagacct | acacggatcc | gaggtaccag | 120 |
| gtaccagggtg | agttccattc | ttactaccac | ggtgctat | tttttgctat | gtggctaatt | 180 |
| acatgactaa | cttg | | | | | 194 |

<210> 3

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<211> 325
 <212> DNA
 <213> Oryza sativa
 <220>
 <221> misc_feature
 <222> (255)...(325)
 <223> segment of the T-DNA insert in line 1B-192-40

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 tgtaggaggc aacttcctag agggaagtat tccacaatca ttagcaaatc tcaggggcac 180
 caaagtgctg gatttctccc agaacaattt atctggtgca ataccggatt tctttgggac 240
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 tgtggctaatac tacatgacta acttg 325

<210> 4
 <211> 650
 <212> DNA
 <213> Oryza sativa
 <220>
 <221> misc_feature
 <222> (560)...(650)
 <223> segment of the T-DNA insert in line 1B-207-27

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 cttcccttac ttccacttta acatttctag atctgtcata caacactttt gatggagaaa 120
 tcccattgag agtgcaaaat ctcaactcaac ttactgcatt gcttctccag aataactctc 180
 tttctggacc catccctgac ctccaactcc caaattgag gcatttgaat ttgagcaaca 240
 ataacctcag tgggccaata ccaccttcct tgcaaagatt cccagccaat tccttcttgg 300
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 gaactggtgt tataattgca cttgctgccg caggaggggt attgttgcta atcttgattg 480
 ttttactctt gatatgtatt ttcaagagaa agaaaagcac agaacctact acagcttctt 540
 cgtcaaaagg aaaaactggt ggatccgagg taccaggtag caggtgagtt ccattcttac 600
 taccacgggt ctattttttt tgctatgtgg ctaattacat gactaacttg 650

<210> 5
 <211> 6721
 <212> DNA
 <213> Oryza sativa
 <220>
 <221> misc_feature
 <222> (1311)...(1400)
 <223> segment of the T-DNA insert in line 1B-138-07

<400> 5
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 ggcctccgcc ggctcccat ggccgcgccg ctctccaccg ccgcccgcgc ctctgtggctc 180
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 gcgcctcctc atcggcgggg agttcgctga gtcgcgggcc gacgagcacg tcgacgtcac 360
 caatccggta aagcccgcgc tgagcctccc cacgatcgat cgatttggga ggtgtggtgt 420
 gggggcatgt gacagtgatt ctctgggtgt gcgcaggcga cgcaggaggt ggtgtcgccg 480
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 ctcatccggg ccaacatggt aattagttga tagatggatt gaccttctt ccatcggttg 660
 gggattggag agctagaagc ttcactcgat gatgtggtg gatcatgtta tagtgattct 720

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| | | | | | | |
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| acactgaagg | atgcttgggg | cgatgtattc | cgtgggctag | gttgggtttc | agacccttat | 840 |
| agtacctggt | ttcactgctt | cattagatag | tgataatctc | agcatttcaa | atctatgagt | 900 |
| agtcggttat | ttctttcaat | ctactaatct | taatctatgg | cttgattcaa | atgagatgat | 960 |
| atttgtttgc | aaggaatatt | tcttatactg | gatgtttgac | acgctgggtg | caagatctga | 1020 |
| ttaactcctg | gttttgtaga | gggtggggaa | catgcttggt | gaatggggac | actgcagatg | 1080 |
| ggtgaatatg | tatcaaagt | ttctaacggg | attgacacct | ttagcattag | ggagccactt | 1140 |
| ggtgtatgtg | ctggaatatg | tccattcaat | tttccagcta | tgatccccct | atgggtacgc | 1200 |
| acaacttcac | ttcttaatat | caaaatttgt | tattattacg | actcttagcc | caattatcaa | 1260 |
| tataccatgc | aatacatctt | acttttagtca | acacgccatg | atttgatcgt | ggatccgagg | 1320 |
| taccaggtac | caggtgagtt | ccattcttac | taccacggtg | ctattttttt | tgctatgtgg | 1380 |
| ctaattacat | gactaacttg | ttcatttggt | tcttctttcc | gtttggctgc | agatgttccc | 1440 |
| aatagcggtc | acttggtggc | atacttttgt | tctaaagcca | tcagaaaaag | atccaggtgc | 1500 |
| tttgctttat | catcattttt | ttacccagtt | tattcactac | acccgctggt | gttgcatgta | 1560 |
| cgacaattta | aagccagata | aaaatatatg | gttaaatgct | tatctgatat | tacagagcgg | 1620 |
| gttaaccaag | ctgtactttt | ctccacaaca | tataagatca | ttgattctat | gtattcacta | 1680 |
| tatacatatc | catttggtac | tataactttg | ggggtgtggt | tttactataa | catatggtga | 1740 |
| agttaaacat | ttggtgcaca | gttatctacc | caaattggac | atttccacta | cctactgcta | 1800 |
| taaaaaaacc | agcagtaagt | tttaactctt | tggaggtagt | agcaagacaa | cctttttaca | 1860 |
| ttccattgag | atattaataa | aaacagatta | catgttgctt | tacaatcttt | gtgtacatgg | 1920 |
| caaggactta | agatggagtg | aaaatatagc | atgtttttgt | gaactggcac | tagtagtatt | 1980 |
| tctaaggcat | gaaaaagata | tattataaag | tagcaattgt | tgttcatgtc | cttgaagagg | 2040 |
| ctgtaatctt | agtctagtag | aacaaaagaa | ggcacatgac | atgttcctgt | tagtaatgtg | 2100 |
| atggcatact | ttgtaattat | tggttactac | ttcaggggct | gctatgatgc | ttgcgagact | 2160 |
| agcaatggag | gctggttttac | caaaggggtg | gttgaacatt | gttcatggta | cccatgtacg | 2220 |
| gtaaccttgg | ttactcttcg | tccttctctt | ttttttttcc | attttttgag | ctcgatacta | 2280 |
| gattaaataa | tttattttgt | gtgcctgttg | gtgccaaagt | ttgtctacagc | acaaatagat | 2340 |
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| tttggtcttc | atggttatat | gatgctattt | ttactgctaa | acattcatga | atctgttcat | 2520 |
| ctttagccgc | cacacttgct | aagctgcttt | ctgattctac | cttactattt | caggatgttg | 2580 |
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| tctgtctatt | ttgtcttgca | taatactttg | caaactctgg | attcatccta | ttctgtttca | 2760 |
| gtcttttaggt | cattaaactg | gcatctaggc | cattgcatta | tcacacactt | ctacatgttt | 2820 |
| gagatctttt | caatcttgta | ttcttatggt | gtcataatgg | ttcaaattct | gattatgatc | 2880 |
| taacttataa | aaattataaa | tttaccagtt | accatgatgg | tgataaactg | ataataaaca | 2940 |
| tgtatacaca | gcatgaggat | gttttcatga | tgttaggaca | ttcggttgta | aaatttactt | 3000 |
| gtaaacaaat | atgtatagac | cgtatagcat | atgtcacatt | acactcatga | tacctgaatc | 3060 |
| attcttttatt | ttatttttgc | ccaaagctag | tcatttggtt | cagcagatga | tataattatg | 3120 |
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| tgcttggtgt | gctgtaagca | gcatgttaca | gaatgccttt | ttgtttattt | tcagtctaatt | 3300 |
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| ggtccagtga | tcagcaaaca | ggtaaaccat | ctgctttttt | accaacgaaa | aggttgttga | 3660 |
| cctgatttta | agtaacctaa | atatgaagt | gaactctact | tgtactttcc | tgttactttg | 3720 |
| aacactgaac | tggattttg | ctcccccccc | cccccccaaa | aaaaaaaaaa | cttgaatggg | 3780 |
| cctctaattcg | tgtatacaca | ttgaaatcat | ctagttcaga | tattattttg | gtacctaaac | 3840 |
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| gttcatgaat | gaacctgttg | tggtgagatt | gatttagagt | tagcgaatg | gatagtgcac | 4080 |
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| gttggtatgt | ggtatatatt | ttctggaaat | atataattacc | ttttggggct | tggctgcgag | 4200 |
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| tatgctattt | tcttgtaaatt | ataaattttat | aacattttct | acctgtgcat | ttctgttttc | 4320 |
| ctttttctca | atatactctg | tcttaacagt | ttactatcaa | caggctaagg | aacgtatctg | 4380 |
| caaatttaata | caaagtgggt | ctgataatgg | tgctcgtgtg | ctgcttgatg | gaagagatat | 4440 |
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<210> 6

<211> 232

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

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<400> 6

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aggattcgtc tcctctcctt tttgttcatt atcctgtctg tgtgtgattc tggacttctg 180
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<210> 7

<211> 246

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (148)...(246)

<223> segment of the T-DNA insert in line 1C-087-40

<400> 7

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agaactttttt tattcttatg aatgtcattt ttgtttcatg taagttctat taaaattact 120
accaattaat gtttgatgtt cattttcattc aaacacggat ccgaggtacc aggtaccagg 180
tgagttccat tcttactacc acggtgctat tttttttgct atgtggctaa ttacatgact 240
aacttg                                           246
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<210> 8

<211> 370

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (1)...(218)

<223> segment of the T-DNA insert in line 1C-017-14

<400> 8

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taattttaat gtatttataa tgtaagtctc aaaattacat atgtaagtcc taaaattaca 360
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<210> 9

<211> 214

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (126)...(214)

<223> segment of the T-DNA insert in line 1C-038-56

<400> 9

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gttctgaaga tggacctgac ctgttggttg gtctcttcag agtttttagg agttgagaca 120
aagcctatcc gaggtaccag gtaccagggt agttccattc ttactaccac ggtgctattt 180
tttttgctat gtggctaatt acatgactaa cttg                                           214
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<210> 10

<211> 514

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (1)...(113)

<223> segment of the T-DNA insert in line 1C-041-47

<400> 10

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tattgatatc aataaaattta gatagatata tatgtctgaa tttttgcttt tcctcttctc 120
atgagtagta ttctataaaa ttcttgcttg cttgaatttc tgtccatgca aacctttttt 180
cctaaccaac tatgtgtgct tgtccgctag gtattggagg tcaaacagct ctgaaactta 240
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tggttggaac aggcagccca aaattttcta tatgtgctac tttatttcatt ttcttggtcg 420
cattatctta cttagatgta atgatgtatt gtaatgtgat gaagaccatt tcctatgcta 480
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atttgtgcta aattttgatc atatctatcg ccta

514

<210> 11

<211> 603

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (512)...(603)

<223> segment of the T-DNA insert in line 1C-064-20

<400> 11

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caagctgagc tttccggtgt acgagggtga gagcgcaaac accaaggaca acaacctgct 480
cggcgagttc acgctatagt gcatccccc ggccggtacc aggtaccagg taccagggtg 540
gttccattct tactaccacg gtgctatgtt ttttgctatg tggctaatta catgactaac 600
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<210> 12

<211> 401

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (1)...(96)

<223> segment of the T-DNA insert in line 1C-109-35

<400> 12

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cgtaccgtta acgagctcta gaagcttcag tactacgcgt ctcgagaatt cagtacatta 60
aaaacgtccg caatgtgtta ttaagttgtc taagcagcca agaaaagcac actgaaaatg 120
aaagttagaatt tttttacagc ctcccattcc gtcggtgact tcgttcaaag tctattttacg 180
cggcgaggat ggactacagt actccatagc aattgtcgat gacatcaggc actgtcactg 240
ctatcgcaaa ggatccgtgt ccttatttat gacacacatg acacacctac accccttatc 300
attatatttg tttttagatt tgtgcgtata atacagattt caatagagca taacattatg 360
atttttcttt tccgtacaac acacgaatct caataaaata t 401

```

<210> 13

<211> 628

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (528)...(628)

<223> segment of the T-DNA insert in line 1C-109-51

<400> 13

```

gtggcggaac acctttcctt cttggttcag aagatgagat ggatgccttc actggttgga 60
tcagtgtatga aacacttaaa tatactctga aatgtggtgt aggctacttg catgaagggt 120
taagtgtatct ggaacaggaa gttgtaactc agctgtttct cagtgggagg atccaagtgt 180
gtgttgcgag tagcactgtg tgctggggaa gatcattgcc tgcccatctg gtggttggtga 240
tggaaccca gtattatgat ggccgggaga atgctcatalc tgattatcca atcactgatc 300
tactccaaat gatgggtcat gctagcaggc ctcttcaaga taactcaggg aaatgtgtta 360
tattgtgtca tgccgctcgc aaggaatact acaagaagtt cctttttgag gccttccctg 420
ttgagagcca tcttcaccac ttcttgcagt atcatatgaa cgctgagggtg gtggttggtg 480

```

20010-04USA.ST25

tcatagaaaa caagcaagat gctgtggatt accttacttg gaccttcatg tcaaacacgg 540
atccgaggta ccaggtacca ggtgagttcc attcttacta ccacggtgct attttttttg 600
ctatgtggct aattacatga ctaacttg 628

<210> 14
<211> 377
<212> DNA
<213> Oryza sativa

<220>
<221> misc_feature
<222> (1)...(61)
<223> segment of the T-DNA insert in line 1C-056-07

<400> 14
acaagccgta agtgcaagtg ccaaaatttg tgaagaaaat tacttccttc atttcacaat 60
tttcttcagc attaacacag tgtactacat ggcacccttt gccaccatga tactggctct 120
accagcagtg ttacttgaag gaggcggtgt ggttacctgg ttctacacac atgactccat 180
tgcttctgca ctagttatca tcataggctc tggagtgcct gcattttgcc taaacttctc 240
cattttctac gtgatccatt caaccactgc agtgaccttc aatgttgctg gcaacctgaa 300
agtagcaacc atttggccta tgctttgttc ttttcatata ttctgctcga tcattttcta 360
gaactgatca ttgcgct 377

<210> 15
<211> 422
<212> DNA
<213> Oryza sativa

<220>
<221> misc_feature
<222> (351)...(422)
<223> segment of the T-DNA insert in line 1C-100-32

<400> 15
ctaaactgac cactcttata agttttatta ctttatactg tagatgtcctt gctgtcctgt 60
aactcaatat gctaccact aatatctagg agttaccatt gtactaaaaa tgtataaaac 120
atggttgata ggagttcaga aagtgcattt atctgggtac atccgatcac tggtagaata 180
tgttaccact tgaaccaaac tttatgtaat ttataatggg atatttgcaa ctacggaatc 240
ttttactgct catgcaggat cacaaaggaa tttcaaatgc tgcaccagct gattgtccat 300
tgatcccact attggtgccaa aaagtagatc aatcagaagg tacagtggat accaggtgag 360
ttccattctt actaccacgg tgctatTTTT tttgctatgt ggctaattac atgactaact 420
tg 422

<210> 16
<211> 335
<212> DNA
<213> Oryza sativa

<220>
<221> misc_feature
<222> (259)...(335)
<223> segment of the T-DNA insert in line 1C-142-27

<400> 16
taagtgagtc catctgctat ctagctctag tttccttttg ttaaacactt tgaaaggact 60
ttggttcgat agcaaccgct gcagttgcaa atttgcaata ttgttttagc agtagcagcc 120
tgcaactgct ttgattgagg attcgttgct tgttttgcct accgtcatgg gcctttttca 180
ggtcaccgac cgcacgagg ataagagcca agattctgta cgcgacgtcg aagcaagggc 240
tgaggcgggt gcttgacgga ggtaccaggt gagttccatt ctactacca cggtgctatt 300
tttttgcta tgggctaata tacatgacta acttg 335

<210> 17
<211> 425

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (332)...(425)

<223> segment of the T-DNA insert in line 1C-140-04

<400> 17

```

gctttccagg tatatataca taaaatccat cgatcatgca tgtcagaagc tcatcatgct 60
cagatgctca tcctgctcac gctcaatgct catgctctgc tgaaatttgg cggaatttgt 120
tgcacgcat ttgtgtttcc gtattgcatc atgtttgtat atgccaagat atgtgcttac 180
taccgtgtga gcaatgctgt tcaagaactg aatttgtttt tgcaaagtgt tcacacctgg 240
agtaggtgga aggggcagct gcagaggatg ggaggaagcc cagcatttgg gacaccttca 300
tccatcaagg tccaaaaaaa tggagtagat gacacggatc cgaggtacca ggtaccaggt 360
gagttccatt ctactacca cggtgctatt ttttttgcta tgtggctaata tacatgacta 420
acttg

```

<210> 18

<211> 1149

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-115-22 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (394)...(395)

<223> location in genomic DNA where T-DNA was inserted
to create line 1B-115-22

<400> 18

```

aagcttaata tattaggagt agtaagctag cgtgtgagga agattcataa ccatatatca 60
tcctaattag cctttgtgat ttagcttaat cacatggcta aggcacaacc acccatccac 120
ttaactcttc attactacgc tagctacacg aggagagtag ctagctagta caggccccgg 180
caagcataaa tagcagcgtc ccctgcttcc tttcttcacg gtcctcagct catcatctgc 240
atgcagttca ctgacacca cacagcttag cttgctcagc ttcactgac ttcttagctg 300
cagctacttc actttgcata gtttgatcga actaaataac tcaccaagtt agctgtaatg 360
gccaaagtga tcctcgccac cttcgccgct gtgttcattg cgctcgccgc cacctccctc 420
gccggcgacc cggacatgct ccaggacgct tgcgtcgccg actacaagtc cctcaaaggc 480
cgtaagtgtt ggaccattat gtgtcatcga ttcataaaat atgaattgac ctattttttt 540
ttaacgaccc gtacaagaca gtgcgaagat tcatattaac gtatatatgt atgtcgtgca 600
gcgctgcggc tgaacgggtt cccgtgcaag aggatagaga acgtgacggc gaacgacttc 660
ttcttcgatg ggctgatgaa ggccgggaac acggggaacg cgggtggggtc ggtggtgacg 720
gcggcgagcg tggagagcct gccggggctg aacacgatgg ggggtgtccat ggcgcgtatc 780
gactacgcgc catgggggct gaacccaccg cacacgcac cccgtgccac cgagatcatc 840
ttcgtcgtcg agggctccct cgacgtcggc ttcgtcacca ccgccaacaa gctcttcacc 900
cgacaccgtc gcaaggggga ggtgttcgtc ttcccgcggg ggctcgtcca cttccagaag 960
aacaacggca acacgccggc gttcgccatc gccgccttga acagccagct ccccgggacg 1020
cagtcacatg ccgcccgcgt cttcggcgcc gcgcccgcgc tgccgtcgga cacgctggcc 1080
agggcgttcc aggtcgacgg cggcatggct gagttcatca agtccaagtt cgtcccggcc 1140
aaatactag

```

<210> 19

<211> 2971

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-164-43 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (577)...(578)

<223> location in genomic DNA where T-DNA was inserted
to create line 1B-164-43

<400> 19

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| caaaaaggcg | cctctaagaa | ttcctcccaa | acttttttgg | gttgtcaagc | cgtgcgtttc | 60 |
| ggggtacatc | aacggcggcg | atgagctccc | ggatggcccg | atcggcgatc | ctccgtcacg | 120 |
| tcggcggcgt | ccgcctcttc | accgcgtcgg | cgacctctcc | ggcggcggcg | gcggcggcgg | 180 |
| cggcgaggcc | gttccttgca | ggcggagaag | ccgtcccccg | ggtgtggggg | ttgcggctga | 240 |
| tgtccacgtc | gtccgtggcg | tcgacggagg | cggcggccaa | ggcggaggcc | aagaaggcgg | 300 |
| acgcggagaa | ggaggtgggt | gtcaacagct | actggggcat | cgagcagtcg | aagaagctgg | 360 |
| tgccggagga | cggcacggag | tggaaagtgg | cttgctttag | ggtacttgcg | cttcgctttg | 420 |
| ctcctgatcg | gtttcctgtt | tcgattctgt | ttgtcccgtg | gattgatcgc | cagatcgaag | 480 |
| tatccatact | ccgagatagt | aggctcggct | cttaacttgt | cgcgccgccg | tgtgtaattt | 540 |
| tggtttgatt | ttctccgcag | ccatgggaga | cctacaccgc | ggacacttcg | atcgatctga | 600 |
| cgaagcacca | cgtgcccaag | acgctgctcg | acaagatcgc | ctactggacc | gtcaagtcgc | 660 |
| tgcgcttccc | cactgatatc | ttcttccagg | tataattgtg | cttactcgat | caccatgcac | 720 |
| cgcccagcgg | cgttttgatt | ctccgggtgt | ttagcgctgt | gtgttttagt | caacgttttt | 780 |
| ttcgaaggga | aaaactgaga | ggccgcgtga | ctcttggcgt | gtcataagag | gcaaagtagc | 840 |
| attgcaacca | gggcacttga | gaattttggg | ttccttgctt | ccgggaagat | gccatttgta | 900 |
| tttaggacgc | ctgggttcta | cctgatccac | ctgtgtgatt | gattttatgt | tcggaaagta | 960 |
| ttttctacac | ctaggtaaca | tggcacctat | gtgtatgcat | gcaatttaaa | ccgttataaa | 1020 |
| aaaatttaca | aacattatac | aaacatgtaa | gtctaaattc | gatcaacata | tgaagaaaca | 1080 |
| aaaataataa | atttttatag | cgctcttcgg | gtactattca | ctgtctgatt | ttattatttt | 1140 |
| tgtttctcta | gttatagatc | aaatttagtc | atgcatgttt | gtgtatagac | ttatatcatc | 1200 |
| acaatcgatg | ttactaattt | ttttttcaat | tttttctata | actatttgag | tcgcatgcaa | 1260 |
| atgatgggtg | tcatagcact | taggtgtaga | aaatccctgt | ccttttatgt | tccgctatac | 1320 |
| tatctgataa | caacggctaa | gaaaaggaca | cgcattgtga | gaaggactca | actttgattt | 1380 |
| gttaatctct | tgcccattaa | atcaatcata | ggcttattac | tgtttgactc | acaatgactg | 1440 |
| gtgatccaat | tgtttcctag | tgcaaattaa | tctatatatg | attctaattg | cttatgacta | 1500 |
| atttggaaga | acaattatat | tacatgatat | ccatttctag | tagtatgtgg | aaatgatctc | 1560 |
| tagtcggtcg | ctaattgctg | taactgtcaa | tggttaacac | tgcaaattgg | gttgggtgca | 1620 |
| gaggaggatg | ggctgcccgc | cgatgatgct | ggagacgggt | gcggcggtgc | cggggatggg | 1680 |
| gggcggcatg | ctgctccacc | tccggtccct | ccggcgcttc | gagcagagcg | gcggctggat | 1740 |
| ccgcacgctg | ctggaagagg | ccgagaacga | gcgcatgcac | ctgatgacct | tcattggagg | 1800 |
| ggcgaaccca | aagtggtagc | agcgcgccct | cgctatcacc | gtccaggggc | tcttcttcaa | 1860 |
| cgcctacttc | ctgggttacc | tcctctcccc | caagttcgcg | caccgcgtcg | tcggctacct | 1920 |
| cgaggaggag | gccatccact | cgtaaccaga | gttctcaag | gacctcgagg | ccggcaagat | 1980 |
| cgacaacgtc | cctgcccccg | ccatcgccat | cgactactgg | cgctctcccc | ccaacgccac | 2040 |
| gtcaaggac | gtcgtcaccg | tcgtgcgcgc | cgacgaggct | caccaccgcg | acgtcaatca | 2100 |
| cttcgcatcg | gtacgcagcg | atgatcagcg | atcttgctct | ttgatctcgc | cttttgggga | 2160 |
| tgtatgttga | attggttctg | acgtgtgatc | tggcttggct | tgtgatgtgc | aggacatcca | 2220 |
| ttaccagggc | atggagctga | agcagacccc | tgcgccgatc | ggatatcact | gaggatgttt | 2280 |
| gtctactgcc | gaggatttgc | atcactaata | atcaaataca | atgagtatac | ttcgtttttc | 2340 |
| agggaaagca | aatgagagct | ctttagctgt | atcggatttg | gtaattgcta | ctagtaacta | 2400 |
| ctaagtactg | aaaaataagg | agtctccttg | tttgaagtac | aaatctagga | gattttttga | 2460 |
| accaactcta | tctgaattgg | gcctgttttt | cgtacgccgc | actgcttcac | gtacatatat | 2520 |
| tccatcccc | atcttatgtg | tggcaagtgt | ctttctaaat | tcttggatgt | aatgacacct | 2580 |
| gaatttcttt | cgttgaacta | ttggcagctg | agttatatat | actacatacc | attcttttgt | 2640 |
| taaagcaggt | cagagcatag | ttttgtccat | ttgatgtctg | tcacaattct | ggtggtaatg | 2700 |
| ttccaacttc | gagaaaattg | catatctacc | atcccataag | aatggcttcg | ctagaatacc | 2760 |
| attatgaaaa | cgggcttcgc | tggaaatacct | tcctcaacca | gagtgtcttc | gccaaaatgc | 2820 |
| catcccgagc | agaaatgcc | ctggctcttc | atctcgcgcg | tcgacacggg | tgaagagctc | 2880 |
| gccggcgccc | atggctagct | ccctccctgc | catggctagc | tcgacacggg | ctccggcgga | 2940 |
| gggctgcgcg | gtggcggcag | gcgcggtcga | c | | | 2971 |

<210> 20

<211> 4566

<212> DNA

<213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1B-192-40 - genomic DNA without T-DNA insert

<221> misc_feature
 <222> (2273)...(2274)
 <223> location in genomic DNA where T-DNA was inserted
 to create line 1B-192-40

<400> 20
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 tgcatagtcac acctcttcca tcttaattca acaagatctc cgtaactaag tccgtacaca 120
 caaactagtc atgttcaaca ggaatgcatt gactattcga ccaagaatat ggcaccatcc 180
 aacaatcaac atgggtaaaa gatgtataaa cgcctattaa tataaatgtc ctagtccact 240
 ataagaatca aaagcatcta aaaactgaaa ccatattgtc caaatacac accagcaaag 300
 atggtatgtg cagctataca cattgcagtc gtagcaatgc tcgtctccct tacagcatta 360
 gcaatagctg acgaatccga caataaccaa cggaagctc tgctctgcat caaatcacac 420
 ctctcaagcc cagagggagg cgccctcacc acatggaaca atacctcgct cgacatgtgc 480
 acctggcgcg gcgtgacatg ctccagcgag ctcccaaagc ctcgtttggg cgtggccttg 540
 gacatggagg cacagggcct cagcggagaa atcccaccct gcatctccaa cctctcgtcc 600
 ctacagagaa tccacctccc caacaatggc ctctccggtg gcctcgcac cgacgccgat 660
 gttgccgggc tccgatacct caacctcagc ttcaacgcga tcggcggtgc gatcccaaaa 720
 cgccttggtg cgcttcgcaa cctttcgtcc ctggacttaa caaacaacaa cattcatggc 780
 gagatcccg cgttgcttgg gagctcatct gccttggaa ccgtcgttct cgccgacaac 840
 tacctgaccg gaggaatccc attgttcttg gctaagcgt cctcgtccg ctatctttcc 900
 ttgaagaaca atagcctcta tgggagcac cctgcagcac ttttcaacag ctcaaccatc 960
 agggaaatat accttgaga aaacaatctt tctggtgcaa ttccaccctg aacaatattc 1020
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 tctctagggg atctctcatc gcttacagca ctcttagctg cagaaaacca gttgcaggga 1140
 agtataccgg atttttagtaa actatcggcg ctacgggtatc ttgacctctc ttacaacaat 1200
 ctttctggaa ctgtaaatct ctccggttac aacatgtcgt caatcacatt tctcggtttg 1260
 gccacaacaa atccttaggg gataatgcct cctggtatag gaaacactct tcctaacatc 1320
 caagttctga ttatgtctga caatcatttt catggagaaa tccctaaatc tctagcaaat 1380
 gcttccaaca tgcagttcct gtatctggcc aacaactctt tgagaggggt gattccttct 1440
 ttccgcttga tgacagattt gcgggtcgtc atgctgtact caaaccagtt agaagctgga 1500
 gactgggcat tcctgtcatc ctgaagaat tgcctcaatt tgcagaaact gcactttggc 1560
 gaaaacaacc tacgcgggga catgccagc tctgtagccg aattgccgaa aacattaact 1620
 tctactgctc ttccgtcaaa ctacatatct ggcaccattc ctttgagatc tggaaacctc 1680
 tctagcatat cctacttta tcttggtaac aatctattga caggagcatc acctcatact 1740
 cttggccaac taaacaatct tgtgtcctt agcctttcac aaaacatatt ctctggagaa 1800
 ataccacaat ccattggtaa cttgaatcga ttgactgaac tctatttagc agaaaatcaa 1860
 ctgactggaa gaatactgc aactttatcg aggtgccaac aattgttggc attgaacctt 1920
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 agctggctac tcgattttat acacaaccaa ttcataaact ccataccact agaacttggg 2040
 agcttgataa atcttgctt tttgaacatt tcccacaaca aactcacagg caggatccca 2100
 tctacacttg gttcttgcgt ccggttgga tgccttcgtg taggaggcaa ctctcctagag 2160
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 aacaatttat ctggtgcaat accggatttc tttgggactt tcacctcatt acaatatcta 2280
 aatatgtcat acaacaactt tgaggggcca attccagtag atggaatctt tgcggacaga 2340
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 aggattagca tagcatttga tattgcttct gctctagagt accttcacaa ccaatgcatt 3000
 ccacctgttg ttcactgcga tttgaagcca agcaatgtac ttttcaacaa tgaatgatgt 3060

20010-04USA.ST25

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|------|
| gcatgcgtct | gcgacttttg | tctggcaagg | tcaattcgtg | tttattcatc | tggaactcaa | 3120 |
| agcatatcaa | caagtatggc | tgggccaagg | gggtctattg | ggtacattgc | tcctgggtgag | 3180 |
| taggttttct | gagcatactg | cagagtatca | tacaataata | agaaattact | attatatctc | 3240 |
| ttatgattat | aatttgggtac | tcctatgttt | tgctggttat | ctgaaccttt | ttgttttcga | 3300 |
| acaaagcaga | gtattattta | atagaaggaa | taagtatttt | atgattaaca | ctatgggtca | 3360 |
| ttttactggg | gatctgaact | ttttggtttc | aaaacattgc | agagtatggc | atgggcagtc | 3420 |
| aaatctcaac | tgagggtgat | gtctatagtt | atggcattat | tcttctggaa | atgctaacag | 3480 |
| gaagacaccc | taccaatgaa | atatttactg | atggcctgac | actccgcatg | tatgtcaatg | 3540 |
| catcactttc | acaaatcaaa | gacatacttg | accccaggct | tattccagaa | atgacagagc | 3600 |
| aacctttctaa | tcataccctg | caattgcatg | aacacaagaa | gacaggata | atggacatct | 3660 |
| gtgctctaca | actccttaaa | ctcggctcgc | aatgctctga | agagtcgcca | aaagatcggc | 3720 |
| catttataca | tgatatatat | agtgaagtaa | cgtcaataaa | agaagcattt | tttgcaacga | 3780 |
| gcatttgaca | caataaaaga | ggaacaccaa | agaatgaagc | actgccaaat | ttatcttcca | 3840 |
| aagtttcttt | actactgcag | taagctacat | atgtttttac | cgctacaaca | ggatacattt | 3900 |
| gcacactggt | atttaccgat | gcatttcaag | cagcaatttc | tatcatgtaa | taaaaattct | 3960 |
| tgtacagttc | aattgatttg | tgccgagatg | cagcttgatc | tgtttttgaa | gtactgttac | 4020 |
| tagtaaagcc | ttcacgccgc | gggaataaag | aaaaatatat | aaatagtata | gcataattcta | 4080 |
| tcttaatttc | ccatgatttt | ggggtaaaat | tcgggcataa | actgaaggct | gagcatgtat | 4140 |
| atgaaatcgg | atttgagagg | aaatcatggt | tactactcaa | acgtacacct | gaatttgttt | 4200 |
| tatacatgga | ttttcagttc | catctcgaat | caaactggga | ggggtggagg | gtattctcac | 4260 |
| atgtacgata | agagaatttg | catcaaaatt | aggagggttc | agattatcta | tgctaacgtg | 4320 |
| atggataaaa | caaatcttct | taaaattgca | ttgtaattac | agagatatat | cgactaaaac | 4380 |
| agaagatcgg | atctagctaa | gacagtccca | actaaaccaa | tgcttccctg | aacacgatga | 4440 |
| agttaaagat | agaattaaaa | tatccagtaa | gcaaataata | caatctaact | agagcaatcc | 4500 |
| aagagatcca | aacgatgcgg | tcttgaagaa | tgccaataaa | gccgatacaa | ttgccaaggc | 4560 |
| ctacgg | | | | | | 4566 |

<210> 21

<211> 1914

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-207-27 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (906)...(907)

<223> location in genomic DNA where T-DNA was inserted
to create line 1B-207-27

<400> 21

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| atgcaagatc | atatacttac | agctttttctg | gttggtttctc | tcctctttgc | atgcattcct | 60 |
| cctgccaaaga | gtgctgatct | gaactccgac | aagcaggctc | ttcttgcatc | tgctgcctca | 120 |
| ctgccacatg | gcaggaagct | caactggagc | tctgcagccc | cagtctgcac | ttcatgggtt | 180 |
| ggggtgactt | gcacaccaga | caatagccgc | gtgcaaacac | tacgcctacc | agcagtaggg | 240 |
| ctctttggcc | cgctaccctc | agacacgctt | ggcaagcttg | atgccctgga | ggtattgagc | 300 |
| cttaggtcca | atcgcatcac | tggtgatctc | cctcctgaag | taggatccat | tccttctctc | 360 |
| cattccctat | atcttcagca | taataaccta | tccgggatca | taccgacttc | ccttacttcc | 420 |
| actttaacat | ttctagatct | gtcatataac | acttttgatg | gagaaatccc | attgagagtg | 480 |
| caaaatctca | ctcaacttac | tgcatgtgct | ctccagaata | actctctttc | tggaacccatc | 540 |
| cctgacctcc | aactcccaaa | attgaggcat | ttgaatttga | gcaacaataa | cctcagtgagg | 600 |
| ccaataccac | cttccttgca | aagattccca | gccaatctct | tcttggggaa | tgcttttcta | 660 |
| tgtgggtttc | ctttacaacc | ttgccctggg | actgcacctt | caccttctcc | ttctccaaca | 720 |
| tcaccatcac | ccggcaaggc | caagaagggc | ttctggaaaa | ggatcagaac | tggtgttata | 780 |
| attgcacttg | ctgccgcagg | aggggtattg | ttgctaattc | tgattgtttt | actcttgata | 840 |
| tgtattttca | agagaaagaa | aagcacagaa | cctactacag | cttcttcgtc | aaaaggaaaa | 900 |
| actgttgctg | gtggaagggg | agaaaatcct | aaggaggagt | acagcagtg | tggtcaggaa | 960 |
| gctgagagga | ataaattggt | tttctttgag | ggctgttcat | ataattttga | cctagaggat | 1020 |
| ttgctgagag | cttcagctga | agtccttgga | aaaggaggtt | acggaactac | ttataaagct | 1080 |
| gttcttgagg | atggcaccac | agttgtggct | aagagattga | aggaggtggg | cgtggggaa | 1140 |
| aaggattttg | aacagcagat | ggagatagtt | ggcagggttg | gccagcacca | gaatgtgtgc | 1200 |

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| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| ccattgcgtg | cctactatta | ctccaaggat | gagaagctac | tggtgtatga | ctatatccca | 1260 |
| tctggtagcc | ttgctgttgt | tttgcattgg | aataaagcta | ctggaaaagc | tccattggat | 1320 |
| tgaggagacga | gggtaaagat | atctcttggg | gtggctcgtg | gaattgctca | tcttcatgct | 1380 |
| gagggaggcg | ggaagttcat | ccatggcaac | ctcaagtcac | caaacatcct | tctgtcacag | 1440 |
| aacctcgacg | gctgtgtctc | tgagtttggg | ctggcacagc | ttatgaccat | tccaccagct | 1500 |
| ccagcacgcc | ttgtcggata | tcgtgcacca | gaagtcctcg | agactaaaaa | gccaacccag | 1560 |
| aagtctgatg | tctacagctt | cggtgtgttg | gtcctcgaaa | tgctgacagg | aaaagcgcct | 1620 |
| ctgagatctc | ctggacgaga | ggactccatt | gagcacttgc | caaggtgggt | gcagtctgtg | 1680 |
| gtccgggaag | aatggaccgc | ggaggttttt | gacgtcgact | tgtaaggca | tcccaacatt | 1740 |
| gaggatgaga | ttgttcagat | gctccaggtt | gcaatggcat | gtgttgccgc | ccccctgat | 1800 |
| caacggccaa | aaatggacga | ggtgatcagg | aggatcgttg | agatccggaa | ttcctactcc | 1860 |
| gggtcaagaa | caccaccgga | ggagaagcag | aaggatgaat | ctgcagcgcc | atga | 1914 |

<210> 22

<211> 6631

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-138-07 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (1310)...(1311)

<223> location in genomic DNA where T-DNA was inserted
to create line 1B-138-07

<400> 22

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| cgatgctccg | cgccgccttc | ctccgctcag | gtaggtcgcc | gccgcctcct | cctcctcctc | 60 |
| ctcccttctc | cgcggcgact | cctctgacct | ttctcggccc | cgctcccca | cgcaggctcc | 120 |
| ggcctccgcc | ggcctcccat | ggccgcgccg | ctctccaccg | ccgccgccgc | ctcgtggctc | 180 |
| tccgacagcg | cctcgtctcc | ggtaagcacc | cgcgcgcggc | tcatccattc | ccaatttccc | 240 |
| atccgtgtga | agtgtgattg | acctctctct | ctctctcact | ctcccggcgc | agcctagggg | 300 |
| gcgcctcctc | atcggcgggg | agttcgtcga | gtcgcggggc | gacgagcacg | tcgacgtcac | 360 |
| caatccggta | aagcccgcgg | tgagcctccc | cacgatcgat | cgatttggga | ggtgtgggtg | 420 |
| gggggcatgt | gacagtgatt | ctctgggtgt | gcgcaggcga | cgcaggagg | ggtgtcgcgg | 480 |
| atcccgtcta | ccaccgccga | cgagttcagg | gccgcgctgg | acgccgccag | gaccgccttc | 540 |
| cccgggtggc | ggaacacgcc | ggtgaccacg | cggcagcgca | tcatgctcaa | gtaccaggag | 600 |
| ctcatccggg | ccaacatggg | aattagttga | tagatggatt | gaccttcctt | ccatcgttgg | 660 |
| gggattggag | agctagaagc | ttcactcgat | gatgtgggtg | gatcatgtta | tagtgattct | 720 |
| gttctttttt | tgtgatgtca | ggataaactg | gcagagaaca | ttacaaccga | acaggggaag | 780 |
| acactgaagg | atgcttgggg | cgatgtattc | cgtgggctag | gttggttttc | agacccttat | 840 |
| agtacctggg | ttcactgctt | cattagatag | tgataatctc | agcatttcaa | atctatgagt | 900 |
| agtcggttat | ttctttcaat | ctactaatct | taactctatg | cttgattcaa | atgagatgat | 960 |
| atttgtttgc | aaggaatatt | tcttatactg | gatgtttgac | acgctggttg | caagatctga | 1020 |
| ttaaactcct | gtttttaga | ggtggtggaa | catgcttgtg | gaatggggac | actgcagatg | 1080 |
| ggtgaatatg | tatcaaattg | ttctaacggg | attgacacct | ttagcattag | ggagccactt | 1140 |
| ggtgtatgtg | ctggaatatg | tccattcaat | tttccagcta | tgatccccct | atgggtacgc | 1200 |
| acaacttcac | ttcttaatat | caaaatttgt | tattattacg | actcttagcc | caattatcaa | 1260 |
| tataccatgc | aatacatctt | acttttagta | acacgccatg | atttgatcgt | ttcatttgtt | 1320 |
| tcttctttcc | gtttggctgc | agatgttccc | aatagcggtc | acttggtggc | atacttttgt | 1380 |
| tctaaagcca | tcagaaaaag | atccagggtg | tttgctttat | catcattttt | ttaccagatt | 1440 |
| tattactact | acccgctgtt | gttgcatgta | cgacaattta | aagccagata | aaaatatatg | 1500 |
| gttaaatgct | tatctgatat | tacagagcgg | gttaaccaag | ctgtactttt | ctccacaaca | 1560 |
| tataagatca | ttgattctat | gtattcacta | tatacatatc | catttggtac | tataactttg | 1620 |
| gggggtgtgt | tttactataa | catatggtga | agttaaacat | ttggtgcaca | gttatctacc | 1680 |
| caaattggac | atttccacta | cctactgcta | taaaaaaacc | agcagtaagt | tttaactctt | 1740 |
| tggaggtagt | agcaagacaa | ccttttacaa | ttccattgag | atattaataa | aaacagatta | 1800 |
| catgtttgct | tacaatcttt | gtgtacatgg | caaggactta | agatggagtg | aaaatatgac | 1860 |
| atgtttttgt | gaactggcac | tagtagtatt | tctaaggcat | gaaaaagata | tattataaag | 1920 |
| tagcaattgt | tgttcatgtc | cttgaagagg | ctgtaactct | agtctagtag | aacaaaagaa | 1980 |
| ggcacatgac | atgttctctg | tagtaattgt | atggcatact | ttgtaattat | tggttactac | 2040 |

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|-------------|-------------|-------------|-------------|-------------|--------------|------|
| ttcaggggct | gctatgatgc | ttgcggagct | agcaatggag | gctgggtttac | caaaggggtgt | 2100 |
| gttgaacatt | gttcatggta | cccattgtacg | gtaaccttgg | ttactcttcg | tccttccttt | 2160 |
| ttttttttcc | atttttttgag | ctcgatacta | gattaaataa | tttattttgtt | gtgcctgttg | 2220 |
| gtgccaagt | ttgctacagc | acaaatagat | attcgaatgat | tgatatttttc | tggtctaaccat | 2280 |
| gacaataatt | ttactctttc | ttggaacact | ggcaaaaaaa | aaaagtggcc | ttgaaacttc | 2340 |
| accttaccat | gcttagctct | gtagggattg | tttggctcttc | atggttatat | gatgctattt | 2400 |
| ttactgctaa | acattcatga | atctgttcat | ctttagccgc | cacacttgct | aagctgcttt | 2460 |
| ctgattctac | cttactattt | caggatgttg | tgaacaacat | ttgtgatgac | gaggacatca | 2520 |
| aggcagtttc | ctttgttggg | tcctaataag | taagcggatc | caaagtatct | gtctattttc | 2580 |
| cgattttgtg | taccattttt | gcatacaatca | tctgtctatt | ttgtctgca | taatactttg | 2640 |
| caaatctggt | attcatccta | ttctgtttca | gtcttttaggt | cattaacttg | gcacttaggc | 2700 |
| cattgcatta | tcacacactt | ctacatgttt | gagatctttt | caatcttgta | ttcttatgtt | 2760 |
| gtcataatgg | ttcaaattct | gattatgatc | taacttataa | aaattataaa | tttaccagtt | 2820 |
| accatgatgg | tgataaactg | ataataaaca | tgtatacaca | gcataaggat | gttttcatga | 2880 |
| tgtaggaca | ttcgggttga | aaatttactt | gtaaaacaatt | atgttagatc | cgtatagcac | 2940 |
| atgtcacatt | acactcatga | tacctgaatc | attctttatt | ttatttttgc | ccaaagctag | 3000 |
| tcatttgttt | cagcagatga | tataattatg | atctctctct | cactctcagg | ctggtagtga | 3060 |
| tataattctt | agagcatcgg | caaaggggaa | gcgtgttcag | gttagtttgc | acctgttcct | 3120 |
| gacatgcaga | acctttcctt | cgaaaacttc | tgcctgggtg | gctgtaagca | gcattgttaca | 3180 |
| gaatgccttt | ttgtttattt | tcagtctaata | atgggtgcaa | agaatcatgc | aattatcctt | 3240 |
| cctgatgctg | accgagatgc | cacactgaat | gcccttattg | ctgctgggtt | tggtgctgct | 3300 |
| gggcaagggt | gtatggcatt | gagcactgct | gtttttgttg | gaggttcaga | gccatgggtat | 3360 |
| atacttctgt | cctgtttgtt | tcttcaggat | aagacctggc | attaggtaat | gaagtataaa | 3420 |
| aataaccatt | tgtctttag | ggaggatgag | ctagtcaaac | gtgcaagcag | ccttgtgggt | 3480 |
| aattcaggaa | tggctagtga | tgcagacctt | gggtccagtga | tcagcaaaca | ggtaaaccat | 3540 |
| ctgctttttt | accaacgaaa | aggttgttga | cctgatttta | agtaacctaa | atatgaagtg | 3600 |
| gaactctact | tgtacttccc | tggtacttgc | aacactgaac | tggatttgtg | ctccccccc | 3660 |
| cccccccaaa | aaaaaaaaaa | cttgaattggt | cctctaattcg | tgtatacaca | ttgaaatcat | 3720 |
| ctagttcaga | tattattttg | gtacctaaac | ttatcctaata | gtggacttct | cttgggtactt | 3780 |
| atgtaggata | ggttatgaac | atttatcctt | ttatgccatg | atttctatgt | tgactcaaca | 3840 |
| cgtgaactta | acatccccag | atttcaagag | tggttaacatt | acatagccaa | gtaatgactt | 3900 |
| gtaaagtttc | tgtatttttt | gatctcgtct | gttcatgaat | gaacctgttg | tggtgagatt | 3960 |
| gattacagtt | tagcgaatgt | gatatgtcat | gaaattgcat | ttgaaattca | aaaaaggcta | 4020 |
| cttctgtttt | tttttgggtt | tgatgagact | gttggtagt | ggtatatatt | ttctggaaat | 4080 |
| atataattacc | ttttggggct | tggtctgcag | tattatttagc | ttcagattca | taatgattgt | 4140 |
| ggctactaca | ttgggtacgc | tcacagtttt | tatgctattt | tcttgtaaata | ataaatttat | 4200 |
| aacattttct | acctgtgcat | ttctgttttc | ctttttctca | atataatcctg | tcttaacagt | 4260 |
| ttactatcaa | caggctaagg | aacgtatctg | caaatttaata | caaagtgggtg | ctgataatgg | 4320 |
| tgctcggtg | tgcttgatg | gaagagatat | tggtgtaatt | ttagtccagt | tgtttccttg | 4380 |
| cctgcagttc | tccccgtggt | cttatgcagc | aatgcataat | agtgcataaac | tggtgctaaat | 4440 |
| tttgcaggtt | cctaacttcg | agaatggtaa | ttttgttggg | ccaacactcc | ttgctgatgt | 4500 |
| taaaagtga | atggaatgtt | acaaggattt | attctgaaat | ttgtcatttt | aaactctgca | 4560 |
| ttaggactga | tgtttcttgt | ttgaagagcc | atgaaaggaa | ggaagggttg | attattagcc | 4620 |
| tcctgcaaag | ctattttgtt | gattagtgtc | gtctgtgttc | taaaaattaa | aacatggaat | 4680 |
| gcatttaagg | atatatttat | ttctaattga | agtgctaaact | gtggacctat | ttgatactcc | 4740 |
| ctccgtccca | aaatataagc | atttttagac | tctgatacga | tctttgatata | gctactttga | 4800 |
| ccaacaatat | ctgtgaaagt | aagatgtttt | aaataaaaagg | agttacatat | tatgatagat | 4860 |
| tgtttaatga | taaatctagt | aatatcaatt | ttacatgatt | gattgttttt | tttttgctat | 4920 |
| taatagtcaa | agttaaaaat | gtttgacttg | ttactatgct | aaaaatgctt | atattttggg | 4980 |
| acagagagag | tatttaattta | tttgggacta | tgatgtatct | ttcttttcag | gagtgtattt | 5040 |
| gacctatgct | tttttaaaaag | aatttatatga | ttttgtctgg | agaccaatgt | aatttaacaat | 5100 |
| ccaaaacaag | gaaatggcaa | agcagataac | tcgcctattg | catgggtatca | aatctcagta | 5160 |
| ttgctcactt | tcccatttat | aacttgcaag | acactgttct | cctcaagtag | acatccttgt | 5220 |
| tgacgtggcc | gacttttatt | tgttgtccta | ttgttgtttc | ttcctcctaa | tgccccctat | 5280 |
| gatcacgagc | tgagacaatt | gtcacagata | cctagtatag | ctgtaccagt | ttatgattca | 5340 |
| tgaacattgt | catatgttgc | agtgcagcc | gttgcatact | tagaagccgc | atatgcatta | 5400 |
| tatttttaag | gaactttgct | aaattgaaac | aggaggagat | ttttgggtcca | gttcttctct | 5460 |
| tgatgaagg | atgtgaaaat | tgtttccctt | gctatgcaca | ataaaaagatc | tgttacactg | 5520 |
| ctgaccattt | tcttgtttac | aggctgagag | cctagatgat | gctatccaaa | ttgtgaacag | 5580 |
| aaacaagtaa | tgctttattg | atttattcct | tccatgtact | agatagtcct | gattgagcac | 5640 |
| atgttgaaat | tttgaaaatc | ttcctacatt | tctttgtgtg | tcagatatgg | caatggagca | 5700 |
| tccatattta | caacatctgg | tgtgtctgca | aggaatttcc | aaacagacat | tgaagctggc | 5760 |
| cagggtatttt | gtagtctctt | tcttacaata | cactacatct | ctccacggtt | cgagaaataa | 5820 |

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| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| aaacgcgcgg | acatttcatg | catgctaact | aggcctagct | agacagggcc | tgaaaaacag | 5880 |
| gtttggagaa | aatatgataa | ctaaagtaac | tgaaataaac | ccagattttt | gccatttgct | 5940 |
| aaatcaaatt | caaacacata | tataaagtga | gaagggcccc | aagcccagct | ataacttggg | 6000 |
| gcctgaactt | tgaatttgca | tgaattctaa | gttagcagaa | agcaaattct | cactgggcac | 6060 |
| tgatgcaatt | gataaatttg | tcgatatgaa | ttaaccttca | caagaacttg | gattgttcac | 6120 |
| agtttgtggc | ttctcccttt | tgcacttcgc | aggtgggcat | caacgtgccg | attccagtac | 6180 |
| ccctgccgtt | cttctccttc | accggcagca | aagcctcctt | tgcaggagac | ttgaatttct | 6240 |
| acggtaagag | atcaacactc | tcgatcta | ctcactttga | tcctttccca | acaattgcaa | 6300 |
| tgggctcaaa | gctatatcca | actacggccg | tatcgatcat | ctgaaaagaa | actcgctcaa | 6360 |
| tgaaacattg | ccgcgtggcg | tgcaggcaag | gcgggcgtgc | agttcttcac | ccagatcaag | 6420 |
| acggtcacgc | agcagtggaa | ggagtcgccg | gctcagcgcg | tctccctctc | catgcccacc | 6480 |
| tcgcagaagt | gaggtgaaaa | aaaagaaagg | catcttgtag | gttcttcatt | tgcccatcca | 6540 |
| tggaatatga | cacatgcacc | aatgcgaaat | gaacagaaga | ataatcgata | ggcgcgggat | 6600 |
| gccatgccat | gccaataaag | gtagctggtc | t | | | 6631 |

<210> 23

<211> 3937

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1D-059-12 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (530)...(531)

<223> location in genomic DNA where T-DNA was inserted
to create line 1D-059-12

<400> 23

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|------|
| aaaaagatat | gaaggttggt | gtttatacat | aagtgggtgtg | acttttataaa | atgataaaaa | 60 |
| taaaaaccct | atatttgatt | tattttaata | tgctcagaca | acgaaacaac | cgattttaca | 120 |
| ttttttgagg | atttgcttaa | tataataaag | ttcaggccca | catgacagcg | ggagattagt | 180 |
| ggcatacctt | cccctcgcct | cacgaggggc | atatttcgta | attacgaaat | tccccttaag | 240 |
| aaaacccccg | agctgtcctc | gtaaaaccct | aacaccttct | cccccaaatt | cgctagagcc | 300 |
| atggccgccc | ccgccaccgc | cgccgtcccc | ctcgacgagg | ccaaagccaa | ggaggttctc | 360 |
| cgccagggtt | gcgattcccta | ccccgttccc | ggactctgcc | cgttctggcc | cctcaaatta | 420 |
| tgggggaatt | tttcagatcg | aagtcgctta | gcgttctttt | gttctgcacc | gcaggtggag | 480 |
| ttctacttca | gcgacagcaa | cctccccgcg | gacaacttcc | tgcggaagac | agtcgaggag | 540 |
| agcgaggatg | gccgtaagga | ttcgtctcct | ctcctttttg | ttcatgatcc | tgtctgtgtg | 600 |
| tgattctgga | cttctgggtg | taagtctggt | gttggtttatg | ggtgtgttgg | gattgggcag | 660 |
| tggtagctt | ggcactcatc | tgctccttct | cgccgatgaa | gaagcaccta | ggcctggacg | 720 |
| cggacgtgaa | gcaggagacc | atgccggagg | agacggtgct | cgccgttgct | gaggtgctgc | 780 |
| ggcgttcttc | ggccctccgt | gtcaccgagg | atggtaagga | agttattttg | tcacatacgt | 840 |
| gcaccattac | acattcgaag | ttcatgtggt | gacagcaaaa | gaggcttaac | ttcattctgt | 900 |
| ttagattttt | tagagtgaag | ttgtgtgctc | atattgacaa | tgtagcctta | aattccaata | 960 |
| ccatgttttt | tttttcgccc | cctttaactg | tttttttgac | agggaaagaaa | gttggttagat | 1020 |
| caattgagtt | gtcgaactg | gatgagatca | tggagcaagt | ggactctagg | acaattgctg | 1080 |
| catcaccatt | tccttacaat | gtaaagctgg | aagatgttca | gtctttcttt | gctcagtagt | 1140 |
| gcaaggata | catgactagc | atttagtagc | aaagcaata | tcacatatgg | tctgcaaaac | 1200 |
| tgtaagatt | gatgcatagg | gtagtcaaga | attcagcaac | ccccaacaac | atgggacatt | 1260 |
| tatgagtcct | ggaatttaaa | tgatgatgcc | atgatgatga | tgataatgat | gctatgctgc | 1320 |
| atctgaactg | tttgcatcac | aggtgaacag | tgtgaggcta | cctcgacata | ttgccgacaa | 1380 |
| acgacacttc | tgtggcactg | ctttagtcga | attttcagaa | gaagaggaag | caaagtctgt | 1440 |
| attaaagaat | actcttggtt | ttgcaggagc | agactctgaa | ataaaaccaa | agtaagccaa | 1500 |
| ctactgctca | agcttctttc | ctcgtactat | actgattagc | tagagattta | tgtctccatg | 1560 |
| ctttgggcaa | attcttcatt | tcttttttga | aacggcaatt | tttcatttct | tatttagtta | 1620 |
| ttttttatgt | tatgcttcta | tagtaattgc | agttgttgat | tgcaacttgc | ttagctgcaa | 1680 |
| tatgtcctgt | tgtttcttca | tcatatttga | taaatgttaa | ctgaaccagt | tcctcatttc | 1740 |
| acatagttga | atctatttat | taactgaata | tcattctgat | aaccgtcatg | caatcctgaa | 1800 |
| aaaaatgaag | gaaagaattc | gatactgaaa | gagaggctaa | gaaagaagct | tatgagaagt | 1860 |
| cacaacctac | taagaatggt | catgatgagg | ggtaaacatt | tctttactaa | caactttaca | 1920 |

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| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| aatgggttttt | tcaatttcct | tgagttgaag | ataaccgagt | cataaaaatt | ggttatagat | 1980 |
| atccaaaagg | tctaattgtg | gccttcaagc | tgaagataat | tcaaattgat | gggtggcatgg | 2040 |
| cagaaaatgg | tggggacaaa | gaggggtgaaa | ctgatgatgc | caataaatca | agaacagggc | 2100 |
| atgacgagaa | aatccctgag | aacagtgata | tcaaaggaaga | cttgtcagat | gatgttgaga | 2160 |
| agtcaaaaaga | ggcagctgct | caatctgtta | agaaaggaga | aagtccttca | gaaaatgcgg | 2220 |
| atgatccaat | ttcaagggaa | gatttttaag | aagaatttgg | caaattcggc | acagtgcggg | 2280 |
| taacttttcc | aataattgat | gatgtttgtt | tttcatattg | attttgtttc | accaggagta | 2340 |
| acctgaggtt | gtaaatctgg | tgtgcattgc | ataaaatata | cagaatagat | agggtgcata | 2400 |
| tttcattttg | ccgactattg | tttgctgtag | attgtgagac | tggtatgatg | catacaactg | 2460 |
| agcttagctt | ttttaatgag | aagtgcctgt | tggcttcaat | tggcttcaat | gacggagtca | 2520 |
| tacagttatg | tgatcacaat | agcatgctgt | tatgttatat | ttattcatgc | tatttttgta | 2580 |
| ggatttggtg | aatgatagca | acacttagtt | caatgtcgat | catattacct | ttgtgctaata | 2640 |
| tggacaaacc | taatctagtc | aaacgtgtag | agctacagtg | agatgatcca | atagtctctg | 2700 |
| ttcttactct | tactgccttt | tgtaaagcaca | catttgcctg | gagagaaagc | aagagaaata | 2760 |
| atgcttcatc | ttgtaaaagc | atctacacca | tgtcttttatg | caattctgta | tcttgctttc | 2820 |
| taatttctac | aagtaaacat | aatctctttt | atcagacaac | ttatgctgat | tcaaaactct | 2880 |
| ttctttttta | ttgttccatt | ttccccctt | gaagtatgtg | gacttcagca | taggggagga | 2940 |
| ttcaggatac | attcggttcg | aggattctaa | ggcagctgaa | aaggcccgtg | cacttgccggc | 3000 |
| tatttcagat | gaagggtggt | tgattatgaa | gggccatctt | gttactttgg | aacctgtgtc | 3060 |
| tggtagaagc | tgcactttct | ttcagttaat | tattattttt | tagcttttgt | tgaactgagt | 3120 |
| aactaaatcg | accacaaaaa | tgatgcctta | ttgatattgtc | atatggttgg | cattcctgct | 3180 |
| ttaggtgtat | ttaggtgtac | tgtttaacca | tgagtttttaa | gcagaagctg | tcttgatgta | 3240 |
| ttgatgcttg | acttcaaaaa | atcgctaattg | atccatcaaa | ttggtataga | aaaagcataa | 3300 |
| cacttcagcg | gatttgaatg | ctatgtttta | tcactatttt | gatgatttac | tgttcctttc | 3360 |
| attcagggtca | agctgagaag | gattattgga | gtgcgataaa | gggcgggtcaa | ggaaaatata | 3420 |
| gagacaatag | aagtaacagg | ggaaggattt | tcattttacc | tcagaatcat | tcttcctgtc | 3480 |
| tgtttgctct | gttagagccg | atcctcttaa | atatcataat | gcacctagaa | tgaatcttag | 3540 |
| gagtgggctg | aaacttaaaa | tagaagttga | agccttatgg | cacacaagaa | tgccaacaca | 3600 |
| tatatattgga | gttatattat | catggaactg | gcagtaacca | gtttatctgt | caataggatt | 3660 |
| gccatcccc | atttaatcac | tcactagcta | caaacctatg | gtcctttttc | aaatatgtac | 3720 |
| tacaaaaaaa | gcaacaggca | tgatcatgaa | tgcaatctca | tgtagtatat | gtacagtata | 3780 |
| cactttgata | agctgttggc | agaagataat | gctggttgct | ttgcatgaac | ttttctaggg | 3840 |
| actggaagaa | taacaggggc | gggaggcact | tcggtgggaa | gcgtgggtcg | cactcggacg | 3900 |
| gccatgaaag | ggcaataaaa | gctcgaaaag | tcgatgc | | | 3937 |

<210> 24

<211> 6809

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-087-40 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (2666)...(2667)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-087-40

<400> 24

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| cagattagct | aggagttgta | gtaatatagt | agtaagtcta | aatcaacatt | tttttttgaa | 60 |
| aataaataaa | agggaaacca | gctactccag | tttgtttgac | atcagattca | tagaaaaggt | 120 |
| gggcttactg | ggttcggccc | attaaccaac | ccacggacgc | ttccacctag | gagtagtagt | 180 |
| ttgggttttg | gttcttcaat | cgtctcgtct | gttttgtttt | ccccctccgac | tccgactccg | 240 |
| atcgatctca | accccgaaat | cctcctcctc | accgcggcg | agcttccggc | tgccgaggag | 300 |
| atggccacac | gttattggat | cgtgtctctt | cccgtgcaga | ctcctggctc | caccgccaat | 360 |
| tctctctggg | cgcgcttcca | ggactccatc | tcgcgccact | ccttcgacac | gccgctctac | 420 |
| cgggtaagca | tcctccccgc | cttcttctct | tccttcttct | cttccgccac | caccatcctc | 480 |
| accctctctc | tccgcctccc | gcccgcagtt | caacgtcccc | gatctccgcg | tcggcacgct | 540 |
| cgactccctc | ctcgccctca | gcgacgatct | cgtcaaggta | acccatctct | tcttcttctc | 600 |
| ccgatctcga | tctcccttgc | ccccccgctc | tcacgcgatt | cctattattc | ctgccgctgc | 660 |
| tgcatgctaa | cgtcttcatc | gaggggggtct | cgcacaagat | ccggaggcag | atcgaggagc | 720 |

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| | | | | | | |
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| cctacctcac | caggtcgcctc | gctcgcctcct | gccccctgctg | cctctcagct | tagcgattcc | 840 |
| aactcttttg | ctaaagctct | ctacctcttc | cttcctttgc | ttcttcttct | tttctaggtt | 900 |
| tgtgtgggat | gagggcaaat | acccaacgat | gtcaccgctc | aaggagattg | tcggcagcat | 960 |
| ccaatcacag | gtctccaaga | ttgaagatga | catgaagggtg | atgacctttt | tcccttgcca | 1020 |
| ccacataatc | actagtcaag | acccaaccta | catatagtgc | tgtaatatg | tttcgaccct | 1080 |
| aatgctgtct | ctagtcatta | attaacgaca | cttggtgtat | tcttattctt | cttgtagata | 1140 |
| agacataaag | ttttgccgtt | cagcgggaat | tgtttgcttg | ctttgcaaca | agtaggcaag | 1200 |
| ttttgacatt | atctccataa | cgtgcaaagt | tcaagctagt | gagctttgtt | ctcctgccaa | 1260 |
| gtgtgttttt | acaggggtcta | gcttggtttc | tgttttggtg | tgttctgttg | ttctagccag | 1320 |
| ctatcaacac | aaccatattc | ttgtgattag | gcatccacgt | ctcctttttt | agcattgagt | 1380 |
| tatcgcgcac | aacactacag | cgtgacctgt | tgaatttaca | acagctgagc | tgaatgtgtt | 1440 |
| ttttaccttc | aggttcgagg | agcgggaatac | aataatgtaa | ggagccagct | tagtgcgatc | 1500 |
| aacagaaaagc | aaactggaag | gtagattgca | tgccactgag | tttttggtt | taagccaatt | 1560 |
| ctttcttgtt | ttatttcaaa | ggactcagaa | atgaggggtt | atgggttcat | cttttgttag | 1620 |
| tcaactctaa | taggtttgtt | ttccttctgt | atagcttagc | agttcgtgat | ctttccaatc | 1680 |
| tggtaaaacc | agaggatatg | gtcacatcag | aacatctagt | gacactcctt | gcagttgttc | 1740 |
| ctaagtactc | tcaaaaggat | tggttgctca | gctatgagtc | ccttgacaca | tttgtggtta | 1800 |
| gtatatgtct | ttttatagt | acatgggttag | taatagactg | tcatttcaac | tatttatatg | 1860 |
| attttcgtcc | tttcagcaag | ttgcttattt | tacttttcta | gtttttgttc | aatccaacaa | 1920 |
| tgtttagttt | gttaccactt | gtggcggttaa | tagttctact | agcaggagat | gttacccttg | 1980 |
| tagaaaaccac | ttaaagtata | gatctgtttg | acctgtaaat | tctttactca | gattgtttta | 2040 |
| tttagccctt | ataaggacct | tggttttttt | tccagcacta | catgttgatg | tgattagtat | 2100 |
| tcgtaattgg | ttgttatatt | tgagtgcctt | tttccttgaa | ctaattattg | atttataggt | 2160 |
| accgagatcg | tctaaaaaac | tttatgagga | caatgagtat | gctctctaca | cggtaacatt | 2220 |
| gtttgctaag | gttggtgaca | actttaaggt | ccgtgcacgt | gaaaaagggt | tccaggtaaa | 2280 |
| tttgccgtcc | taactttttc | atcaaaaacc | tttggttaca | cttcacattt | agctttttatc | 2340 |
| cctagagcct | taggagtttc | aaataacttg | ggacagaaat | tcagtcttgt | ttttctgtcc | 2400 |
| ccatcaatct | ggcaattctc | tgacacccat | taacttgat | tacgttgaaa | tacaggttcg | 2460 |
| cgattttgag | tatagttctg | aagcacagga | aagtaggaag | gaagagctgg | aaaagctaatt | 2520 |
| gcaagaccag | gaagcaatga | gggcatcact | tctgcaatgg | tgctatgcc | gctacagtga | 2580 |
| ggtgcatgtc | tttttaggct | tatttaataa | tcctgtcaac | aatgacattt | ctttagagaa | 2640 |
| gaactttttt | attcttatga | atgtcatttt | tgtttctagt | aagttctatt | aaaattacta | 2700 |
| ccaattaatg | tttgatgttc | atttcatcat | tttgcaccag | aatagagata | aatatgtttt | 2760 |
| catctccttt | agtagcctga | cggtcttaat | tgctcttaaa | agcatccaat | tatgcggaat | 2820 |
| ctgaaccagt | aagaagatat | tgctgtggtc | cagttgccac | ttgccagcaa | tagatagatg | 2880 |
| ccacgctgtg | ttttatgttt | aaattttaca | taaggatttt | agtaagttaa | aacttcatgg | 2940 |
| catactgcaa | gttcttccta | ctgctgttat | tatctcacta | gaaccttatt | attcagggat | 3000 |
| aaactctgtg | ttctgggatg | tattaataag | cttggtgtta | ttatccataa | ttgtctattt | 3060 |
| taatttggtg | agaataccat | ttatgtacgt | catgctaaag | tgcaaaactt | tgtgcttctc | 3120 |
| tatgtgcgta | aaagaaaata | attcgtgctg | ttgtttatct | ctgcttatgc | agtgaattgc | 3180 |
| tgcatgaag | gatttggtta | ctgaactgag | ttagtttagag | cctagctcta | taggctatag | 3240 |
| acatacttat | tacataattca | ctatgtccca | aaaaaaaaac | caacctagtc | aaggatggga | 3300 |
| tacaacctag | tcatgtccag | attcgttgta | ctaggttgct | tcatcatgtc | ctagtcattg | 3360 |
| acggaggggag | tagtcacatat | gtttcttgat | tggtgggttt | tggtgggttg | tttttcttag | 3420 |
| attcattcct | cgtgaacttg | tgttttcatg | gtgctcagtt | gtaattgctt | acataaaact | 3480 |
| attctgcagg | tattcagttc | ctggatgcac | ttctgtgctg | tgctgtctct | tgtagagagc | 3540 |
| attcttagat | atggctcttc | cccatcattc | ctggtaatat | attctactgt | tacgtagtat | 3600 |
| atgacagtca | aatittgtact | ttgatgcctg | atctaataatc | atatgctggt | tatgttttca | 3660 |
| tcagtctgtg | gttctagcac | cttctcaaaa | gggtgaaaag | aaagtaagga | gcacccctgga | 3720 |
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| cctgtagttt | gaaccgatca | ataatgtagc | tttttggggg | aacctggact | attttcctgg | 4140 |
| cacaataggg | tatctgtttg | gactatttta | tccccggcaa | ctacaataat | ccaactgttt | 4200 |
| ccttttagtat | atctattgtg | ctttgagagc | accgtgtaag | atgttggtga | tattatgttt | 4260 |
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| agcctgattg | taaacagttt | gttggtgaat | tcgagctgtt | tccttttttc | tttgacgatt | 4380 |
| acgactgttg | cactcatata | taaatagaaa | gatggttgtg | ttttcacatt | cagtaggggtg | 4440 |
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| aagacacaag | aggagatgat | ggtcaagggt | agagggtgagg | gtgggtgaaa | ttggatcagc | 4620 |
| atcaaagtct | catgatgtta | tcattaacat | atgtgagtc | gatgaattat | tgattcactg | 4680 |
| aagaggatcc | caatggaggt | gatcgcctca | ttttgatttg | agtaggaccg | cgttatgagg | 4740 |
| tcggcaagga | gagtgatgga | tcagaatagt | catagatgga | aaaaaaaatg | caaggagtaa | 4800 |
| ttaagattaa | taggagtaat | gtggatgaag | aagaaacagc | taggctaggc | acataagaag | 4860 |
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| aaatggcatc | ctcgagattg | cattttgtcg | tcgatgatcc | ggtccattcc | ggcgccggcg | 4980 |
| ttcacattac | acaccaacc | aatatcctca | ccagtaactac | tattccattc | tgctactagt | 5040 |
| atactccttc | agtagtgag | tatttttctt | gtataaataa | tactcctaga | gtagtcttgt | 5100 |
| ttcacctacc | cccgttccgt | tccttgatg | aatccattgc | cttgcttctg | cttgccatt | 5160 |
| tgatgatttg | atttgatttg | attcaatctc | caaatcgatc | gatttctcct | cctccatagg | 5220 |
| agaaggagat | acacgtgatg | tccaaccggc | gtcgcaagcg | cggcgaatcc | aagccccaag | 5280 |
| cccacgacgc | cggcgacacc | acgcccacgc | acaacatact | cacctccctc | gacgacgccc | 5340 |
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| gcggattggc | cggcaccg | ttcttctgat | catctcgatt | tccgtcccaa | tctgcactac | 6540 |
| aaacactgta | ttgagggttc | cctcctcccc | tcctgtttgt | tcttgattat | gctatagatt | 6600 |
| agtttaggtg | ctccactcaa | caacaacaat | aacacaagat | tgaaatgtga | tgctttgccc | 6660 |
| tcctcgtaa | taaatcactg | gaatacatca | cttcggttca | aaatttgctt | tgctttttgg | 6720 |
| actattcttt | atcctggtac | tggtaaatta | cacatacaag | ctgaatattt | actcctataa | 6780 |
| gtaagcacga | cctacagtat | ttgggtagg | | | | 6809 |

<210> 25

<211> 4941

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-017-14 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (3754)...(3755)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-017-14

<400> 25

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
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| cttggaaaaa | taacccacc | cccacatgat | tatttccagt | agggccaaaa | tccgggccta | 120 |
| cgctccgaac | ccatgtgggc | cccacatccc | ccacaccaac | cctctgcacc | caaaatcccc | 180 |
| atccccccac | tatatataat | ccccgcccgt | ggatcatcgc | cctcagcaga | gcagcgcatc | 240 |
| tgcatccaaa | accaaaccga | aactcgtctt | ctccaccgga | gcagagcagc | ggcgccggca | 300 |
| atggacgccc | tctcgtgga | gaaggctctc | ctgggcctgt | tcgtggcgcc | gggtgctggc | 360 |
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| | | | | | | |
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| ctggcgcggc | ggttcggcga | catcctcctc | ctccgcatgg | gcgtccgcaa | cctgggtggg | 540 |
| gtgtccagcc | cggacctcgc | caaggagggtg | ctccacaccc | agggcgctcg | ggtcggctcc | 600 |
| cgcacccgca | acgtggtggt | cgacatcttc | accgggaagg | ggcaggacat | ggtgttcacc | 660 |
| gtgtacggcg | accactggcg | caagatgcgg | cggatcatga | cgggtgccctt | cttcaccaac | 720 |
| aaggtgggtg | cccagaaccg | cgcggttggt | gaggaggagg | cgaggctggt | ggtggaggac | 780 |
| gtccgcccgc | acccaccgc | ggcgacctcc | ggcgtggtga | tccggcgaag | gttgcagctg | 840 |
| atgatgtaca | acgacatggt | ccgcatcatg | ttcgaccgcc | gtttcgacag | cgtggacgac | 900 |
| ccgctcttca | acaagctcaa | ggccttcaac | gcggagcgca | gccgcctctc | gcagagcttc | 960 |
| gagtacaact | acggtgactt | catccccgtc | ctccgcccct | tcctccgccc | ctacctcgca | 1020 |
| cgctgccacc | agctcaagtc | ccagcgcgatg | aagctcttcg | aggaccactt | cgtccaggaa | 1080 |
| cgcaagtaag | ttactatctc | aattaattac | cttacctgca | ctgcataatc | ccaagaatcc | 1140 |
| gcaagaacaa | atcctacctc | attagtccca | gattattata | ctaccccatt | tgatctctcc | 1200 |
| ttcaattttt | ttaaaaattt | tattcgtcat | cttgcgatc | caaatttgtt | gtgggtggtag | 1260 |
| gtgaggtgaa | ggtgactgag | ttggttgcat | cttgcatgca | tgatgcattt | gcacgcggtg | 1320 |
| catgaactgg | atgagcgaaa | agtttggtag | taaaagcaat | attctacact | agtagtaggg | 1380 |
| atgtgcacat | gccacgcgag | gaagaggatt | aaggccccct | ttgattcaaa | ggaaattcat | 1440 |
| aggaatttta | aaggatttaa | tttctatatg | aatttttctt | atatagccct | ttgaatcaaa | 1500 |
| ggaatgaatc | ctatggaatc | ctataaaaatt | cctatggaat | gcctcttccc | atgcaaattt | 1560 |
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| ttgtttgtaa | tcacttgttt | tacacttgta | ttcctattag | aatcctatgt | ttttcttatt | 1740 |
| cctccgtttt | tttattcctg | tgattcaaa | ggggccta | ttggcagcag | cctcagatct | 1800 |
| gtttgggtag | gaggaggaat | caaatacatt | tgctgttgct | gcttgctgtg | ctgagcggtg | 1860 |
| acagcacgag | gtggtagctg | cgagcctgcg | aggtcaaatt | tctggttggt | caacggcttg | 1920 |
| actcgggctc | gacctgtgcc | gcggagccca | gctaccaccc | cgtgccaaag | ccaatgtcca | 1980 |
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| gaattgagca | gatctactag | ctcccccatg | tgctcaatga | ctgaaaagggt | cgcaagaact | 2820 |
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| gcaggatttg | acttttagtt | tatcctcagc | ttaattttct | ttggatcagg | cctaaagtat | 3300 |
| atatcgtagt | acatcatacg | tatccatgtc | atagttttga | caaagctgga | gttttactag | 3360 |
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<210> 26

<211> 2034

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-038-56 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (125)...(126)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-038-56

<400> 26

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2034

<210> 27

<211> 4284

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-041-47 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (2471)...(2472)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-041-47

<400> 27

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| ctgcagatca | cgtgggccgc | acgttgcggt | gcagtccaat | ttcagcccga | cccggcccgt | 120 |
| actcgaggcc | caactagacc | ggttctaccc | agccccagct | tagcccagac | cggcccgcga | 180 |
| acgggaagt | aaaacgcaaa | ggcggggggc | cgagcacgaa | aactcgaaat | agcccgcgac | 240 |
| ctctctctct | gtctccgccg | ccgccgcctc | cgccgctcgc | cgcatccgtc | ggaggcgaga | 300 |
| tgggcatcaa | ggtgagcgcg | ggaggggggg | gggtgccgcg | ccgtcctcgt | tcggatttgt | 360 |
| gaccggtggt | gtgggttgta | gctgtttttg | cggccgattc | gtgatgggtt | ttcgtctcga | 420 |
| ttttgtgcgg | gttttttttt | gttaggggtt | gacgaagctt | ttggcggaca | atgcgcccaa | 480 |
| ggcgaagaag | gagcagaagt | tcgagagcta | cttcggccgg | cgcattgccg | tcgacgccag | 540 |
| catgagcatc | taccagttcc | tcgtatgccc | ccatgtctcc | tctcacattc | tgcgagttgg | 600 |
| ctttgaaatg | tgctcactta | cttgggggtt | agggtttctt | aagcctttga | ttgcgcgaga | 660 |
| gagattgtat | ttttttctat | ttaactgccc | agtgttgtaa | ggattcctca | tttcaaattg | 720 |
| ctctcttaga | ccaaatcggg | ttgggtgaaa | ttgggatacc | tccattgtgc | ctcatatttt | 780 |
| cttatttggg | cggctatatt | tattaacatt | aaactaaaca | cctctagcat | tggatgtttt | 840 |
| gctttaaaaa | tgggagtaga | gcatagcaat | tccatattac | attcactata | tgttctgtgt | 900 |
| gcaaatgctt | gacaagtgtt | ggtgaggtat | taggaaatcc | ttaccactg | ctttataagt | 960 |
| tgggacagct | ttttatgttt | tacttgtata | gattgtagtt | ggaaggacgg | ggatggaaac | 1020 |
| cctcacgaac | gaggccggtg | aagtcaccag | gttctaaata | ttaatcttac | accgtttcta | 1080 |
| gtgctaggat | tctgttaatt | cttttataaa | ttagaacttt | ttgctgtgca | gtcattttgca | 1140 |
| aggtatgttc | aaccggacaa | taaggttgct | ggaggcagga | atcaagccag | tgtaaaccga | 1200 |
| aattcctcat | gtgttggtat | tgaaattatc | catataaata | cacttaaaat | tgtgacactc | 1260 |
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| cagttgggtt | gaataacatg | atatggaaga | tgcaaaaaag | gtaagtatga | gagtaacctt | 1800 |
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| catgcttttt | cagggaaatga | gtcaatatat | aatcgttgga | tttgttttatt | ttactatgct | 1980 |
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<210> 28

<211> 3234

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-064-20 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (2690)...(2691)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-064-20

<400> 28

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| | | | | | | |
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| caacaacg | cagcggcagg | ccaccatgga | cgccggcgcc | atcgccggcc | tcaacgtgat | 1800 |
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| cagcaaca | gggaggatgg | tgctcgtgtt | cgatctcggt | ggcggcacat | tcgacatctc | 1920 |
| ccttctca | atcgatccc | gtgtcaacat | cgatatgggc | ctcttcgagg | tgaaggcacc | 1980 |
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| gcataccca | aggtgcagaa | gatgctgagt | gagttcttcg | acgggaagga | gctctgccg | 2400 |
| agcatcaacc | ccgatgaagc | cgctcggtat | ggcgccgcca | tccaggcctc | cattttatgt | 2460 |
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| gcaacttctg | gcttggcaca | tgatggcca | aatcctagct | taagctttta | ttaattgttt | 3120 |
| ctgggacaat | gttttaattg | ctgatattgg | agtaatcttc | tgtatctgtt | tagtgtcttg | 3180 |
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<210> 29

<211> 3677

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-109-35 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (2301)...(2302)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-109-35

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| tatgggtgaa | atgaggcaga | gggagtacag | taccaggcta | ctagccaagc | gagtcaaaat | 180 |
| ggtaaatcga | tcgccacctg | gaccatgc | cctctctata | taagctgccc | tctaactagc | 240 |
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| gcggactggc | tgaacaaggg | ggacaacgcg | tggcagctgg | tggcggcgac | gctgggtggg | 420 |
| ctgcagagcg | tgccgggctt | ggtgggtgctg | tacggcgggc | tgggtgaagaa | gaagtggg | 480 |
| gtgaactcgg | cgttcatggc | gctctacgcc | ttcgccgccg | tgtggatctg | ctgggtcacc | 540 |
| tgggcgtaca | acatgtcgtt | cggggagaag | ctcctcccga | tctgggggaa | ggcgcggccg | 600 |
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<212> DNA

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<220>

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<223> line 1C-109-51 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (6570)...(6571)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-109-51

<400> 30

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| tccaaccccc | tcttctcccc | cttctccggc | gcggcgccg | cggcggcatc | accggaggcg | 180 |
| ccgacctcc | ctcggctcgc | caaaaggtaa | acaccagcta | tccctcttct | cctcctctcc | 240 |
| tgcttctcct | tccgcttccg | cacgaaaaaa | ccaactgaaa | aacctatcg | atctgcagcc | 300 |
| atggcgaacc | tgggcggcgg | cgccgaggcg | cacgcgcgct | tcaagcagta | cgagtaccgc | 360 |
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| tcagtgtatg | aacacttaaa | tatactctga | aatgtggtgt | aggctacttg | catgaagggt | 6240 |
| taagtgtatc | ggaacaggaa | gttgtaactc | agctgtttct | cagtgggagg | atccaagtgt | 6300 |
| gtgttgcgag | tagcactgtg | tgctggggaa | gatcattgcc | tgcccactct | gtggttggtg | 6360 |
| tgggaaccca | gtattatgat | ggccgggaga | atgctcatac | tgattatcca | atcactgatc | 6420 |
| tactccaaat | gatgggtcat | gctagcaggc | ctcttcaaga | taactcaggg | aaatgtgtta | 6480 |
| tatttgtgtca | tgcgcctcgc | aaggaatact | acaagaagtt | cctttttgag | gccttcccctg | 6540 |
| ttgagagcca | tcttcaccac | ttcttgcatg | atcatatgaa | cgctgagggtg | gtggttggtg | 6600 |
| tcatagaaaa | caagcaagat | gctgtggatt | accttacttg | gaccttcatg | tacaggcggc | 6660 |
| tgaccaagaa | ccctaactac | tacaatctgc | aggggtgtgag | ccacaggcat | ttgtcggacc | 6720 |
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| tagagtagga | tatgtacctg | aagccctca | accttggctc | gattgcttcg | tactactaca | 6840 |
| ttagctacac | aactatttag | aggttcagtt | caatgctaac | tcaaaagact | aagatgaaag | 6900 |
| ggctcctgga | gattctagcc | tctgcttcag | aatatgctga | gcttcccagt | cgccctgggtg | 6960 |
| aggaggattt | cattgagaag | cttggtcgcc | accagagatt | ttccatcgag | aagcccagggt | 7020 |
| atggtgatcc | acatgtcaag | gctaacgcac | tgctgcaagc | tcatttttca | aggcacacta | 7080 |
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| aggcaatggt | tgatgttatc | tcagagcaat | gatggcttac | gcttgctctt | aatgcaatgg | 7200 |
| agctgagtca | aatgggtgaca | caaggcatgt | gggactcgta | ttctgttctt | ttacaacttc | 7260 |

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| | | | | | | |
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| cacattttcac | caaggagttg | gcacggagat | gtcaggagaa | tgaagggagg | cccattgaga | 7320 |
| gcatctttga | tctggctgag | atgagcatcg | atgagatgcg | ggatctgttg | cagcaatcaa | 7380 |
| accctcagct | gcaggatatc | attgaattct | tcaagcgttt | ccccaatgtc | gatatggctt | 7440 |
| acgaagttcg | cgagggtgat | gatatcaggg | ctggtgacaa | tgtaactgta | caggtgacct | 7500 |
| tggagcgtga | catgacgaac | ttgccttctg | aggtggggcc | agttcatgcc | cccaggtacc | 7560 |
| caaagcccaa | ggaagaaggc | tgggtggctg | taattgggtga | tagctctacc | aatcagttgc | 7620 |
| ttgcaatcaa | gaggggttgca | cttcagaaga | gggctcgagt | gaagcttgag | ttcaccgctg | 7680 |
| cttcagaagc | tgggagaaa | gagtacatga | tctacctgat | gtccgattct | tatctgggct | 7740 |
| gcatcagga | gtacgagttc | accgtcgatg | tcatggatgc | tggaggggat | tgatcccaag | 7800 |
| gccagaaa | ggatgaaagc | tttgcccagc | ccccaggtgt | gtatggagct | gggtgggtgc | 7860 |
| ttgtacgctc | gtagcaattc | ctaattgtcct | atccacactt | gtatgtgttt | gtactcgttt | 7920 |
| ttatctttag | ccatttttctt | agtgtaaactg | atgctcacct | ctgctgctac | ctgtgggtcat | 7980 |
| ctttggggat | ctttatttagc | tagcctatgg | ctgtgcttct | tgtgatcatc | cttcttattg | 8040 |
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<210> 31

<211> 1383

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-056-07 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (516)...(517)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-056-07

<400> 31

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|------|
| ttatgcagac | tatcaaattct | ttcaccctcg | caaccacggg | tagagtcatt | ttgcacctcc | 60 |
| ttatcatcatc | actattccat | attcattttc | gttttcttag | cattatcata | ttgctacagc | 120 |
| atgtaacacc | ctccctgatg | gtctgcttcc | aatccatgtc | atgcagttat | tctgcagtgg | 180 |
| ttagtttgga | gcaagcattt | tgagtggcgc | atatgggctt | cgctgggtccc | aatagttggg | 240 |
| ggaatactcc | taacttcaat | aacagagctt | agtttcaaca | tgtttggttt | ctgtgctgcc | 300 |
| atggttggct | gccttgctac | atctaccaag | accatttttg | cagagtctct | actccacgga | 360 |
| tacaaatttg | acaggtaggt | gtcatctta | tggcgggtgt | aatgactggg | gctttacttc | 420 |
| tgctgtgatc | ttacagttat | aatactgtat | ggtaaaactg | attttttttg | tcgcagtgtt | 480 |
| accagcaaag | taaatcatgt | tatttatgac | gtttccttgt | gttttcttca | gcattaacac | 540 |
| agtgtactac | atggcaccct | ttgccaccat | gatactggct | ctaccagcag | tggtacttga | 600 |
| aggaggcggg | gtggttacct | ggttctacac | acatgactcc | attgcttctg | cactagttat | 660 |
| catcataggc | tctggagtgc | ttgcattttg | cctaaacttc | tccattttct | acgtgatcca | 720 |
| ttcaaccact | gcagtgaact | tcaatgttgc | tggcaacctg | aaagtagcaa | ccatttggcc | 780 |
| tatgctttgt | tcttttcata | tattctgctc | gatcattttc | tagaactgat | cattgcgctg | 840 |
| caggttgctg | ttgctgtatt | gggtgtcatg | ttgatcttcc | ggaaccctat | ctctcctatg | 900 |
| aatgcaatcg | gatgcgcgat | cacgctcggt | ggctgtactt | tttatgggta | tgtgaggcat | 960 |
| ttgatctctc | aacagcaggc | tgtagctcca | ggaacaggaa | gccaacaac | atcgcaaaca | 1020 |
| aattcgccga | gaagtccgat | ggagatgctc | cccctttag | gcgacaagca | agaaaagggt | 1080 |
| taacaaaaga | atacactttg | tactatgcaa | tagtcattat | ggcttgata | cccttgtagt | 1140 |
| tcgaactatt | gtgttccttc | aagttactgt | tttcaaattg | gccagaaact | gccgcacgct | 1200 |
| aaacttcctt | tctgtgtagt | gcatacggaa | ttttttctac | tactaggatg | tcacgcaagt | 1260 |
| ccagcgtcat | tttctgttgc | tagacgtgta | gcgcactgaa | tgaacagttg | gatactcat | 1320 |
| ctaaccaatt | tgtcttaatt | gtgttgggaa | tgtgactaag | ctaaccaatt | cgtagtaatt | 1380 |
| gtg | | | | | | 1383 |

<210> 32

<211> 7726

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-100-32 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (5051)...(5052)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-100-32

<400> 32

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
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| tgtactcgct | tagtctcgaa | atatatttat | gtaaccagct | ctacaaatat | ttgaatattg | 120 |
| gatgaagaag | aaagaggctg | gcaaaaaaaaa | ggccgaaagt | aaagtaaggt | gaagaccgat | 180 |
| aaataaatgg | gccgaaagcc | catttagtta | gttttgctcc | gctgaatgcc | ctgaaaccac | 240 |
| acgaacacgc | ggctttgctt | cggtttcggt | gccccctcgc | cgccgccgcc | gccgccaccc | 300 |
| atggagatgg | agatggagga | caacaaggcg | ccctcgccgc | catcacctat | ggagtccgac | 360 |
| gtcgcctgagg | agaagcgcaa | gagggaggac | gatgcatcct | cctccgctgt | acttgccgcc | 420 |
| gccacaaca | ccggcggtgc | ccagaccccc | atgtggaaga | ccagcctctg | ctccttcttc | 480 |
| cgccgccgcg | ccgcctcttc | cgccgacggc | tgcagccacg | gcgactcctg | ccgctacgcg | 540 |
| cactccgagg | aggagctccg | cccgcgcccc | gacggcacct | gggacccac | ctccgaccgc | 600 |
| gccagaagc | tccgcaaggt | cgccgccgac | gaggtggagg | aagaggtggt | caccattgac | 660 |
| gacaaggccc | tggacaagtg | cctcgtcggc | ctcccagggg | gatgggcaa | cgacaggctc | 720 |
| aagacttttc | tccaagacaa | ataagagcat | aactactcct | ccattcttcc | tcctgctcta | 780 |
| ctactagtgt | tttcatcggt | ctttcttggt | ttaccactgt | ctactccaac | tagtacaaaa | 840 |
| ttctcacact | ctttcgatta | tatcttctctg | ttttgcacca | acagatattg | gttcagaatg | 900 |
| agtttagttg | ataagctcta | gaatcgaaac | tattgatcaa | cacatgattc | aagtccttac | 960 |
| agctgatatc | acttgagtta | gcttggtcca | aaagtccttt | gacaagcaag | aaagtaactt | 1020 |
| ttcatcacct | tagcttagtc | tggtattttt | gtataggttg | aaatagatta | ctatacgtcg | 1080 |
| caccattata | ttatttttaag | ataagagcat | ctcaaataca | ttgaacaagt | aacttttcaa | 1140 |
| attggtgaga | ttataataag | tttatctggt | ttgcaacatg | tggatgtggc | tatgatgaca | 1200 |
| ttaaaatgaa | ggtatgccat | ggtatattgg | tcatctcgta | atgttgtgtc | attttgattc | 1260 |
| atagaaactt | gaatggatga | attgcatttt | ttaaaaaaa | agtcaaacct | tgatgtttgt | 1320 |
| taatagatta | tgacatgaac | acatgacaca | tggaaagtaca | ctgtttgaga | ttttgagtaa | 1380 |
| tactggaatt | attgatccag | tcataaatca | cttaatacaa | gtcatcccaa | taattcctgt | 1440 |
| ataccagtga | ttctacctaa | aattcgaatc | cgtagatctg | gttagatgat | agcatgaacc | 1500 |
| aaattattcc | attcagcata | ctccaattaa | tgcattgctt | tacttgtagt | aagtatacat | 1560 |
| gaacgatgga | attcttttgc | attacgtccc | tcaactcttg | ttgatattgt | ggacaaatag | 1620 |
| aagcatggtc | aaatattgga | agcttgcttc | aaagcttcat | cttgctctcc | cagatataaa | 1680 |
| ttcaactttt | cttgcactaa | tgctgaaata | ctactgcttg | gttcaacctt | gagttattga | 1740 |
| aaaaatgtcg | ataattcgaa | ataattcaga | aactaggact | ataattttta | gggttatgat | 1800 |
| aattaatttt | gagaatcctt | tatcaagggt | tgacatgggt | aataactaaa | gagaatcggg | 1860 |
| ttagtttaca | gatatttcac | agtggaaagg | agtttttttc | gtaattttta | gttgtgtggt | 1920 |
| atgcatattt | atttagaggc | ttctgaaatc | tgtacttggt | tcatttcttt | tgtacaaata | 1980 |
| cacttgatta | gtttggctag | tcctttataa | atatataaca | gtacttacag | tatccctagt | 2040 |
| gctaggaaag | aaatcatctt | cagtacctgt | atgaagcaca | tttagaagta | atggattaag | 2100 |
| ggacaaagag | gtgatgtcaa | taaccatgca | gatattcatg | ttatctgggt | tgtaaaaata | 2160 |
| ttgaaaaagt | aaactcccaa | ttttggcttt | ttaaaaaaac | ttagaattgc | atgcttatct | 2220 |
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| aatgacata | tggaaatctgc | tcaatcggtt | ggctcttttt | cagcactaaa | gtagtagaga | 2400 |
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| taacttcatt | gatggtgatg | cagggaaatc | cgtatgcaac | agcgaagaag | aagaagggaa | 2640 |
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| agatgccaat | cgtagatctc | atcaaaagct | gcacacagaa | aagcctgtat | ctgacaatgg | 2880 |
| agtgacaaca | gaaaatggta | ctagtgttga | tgttcctcct | ggggagacat | ctgcacctga | 2940 |
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| ttataatgat | cagctagagc | acaaaaataa | ttctgtttcg | cagatactga | agaggcttgt | 3060 |
| aagatcaaaa | ccataatctt | cttctacctt | tttgtttgct | tgaatcatta | gtaacttttc | 3120 |
| ttgttatcta | cttccgcaga | ctcgcgaatg | taggaaagct | tgccctactg | gcattccctt | 3180 |
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| aatgcttcca | tgcaaacctt | aaaacatgcc | cacaaaattg | atatccttta | tttttattgt | 6420 |
| ccattattct | aatctacata | tcctaataaa | tttaaccaaa | actatggatt | ttatgtatat | 6480 |
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| gagagccatg | gctgttgatt | tggtccccc | cacctcgcat | tgtgagatgg | ttatgctttt | 7140 |
| cgagaggtga | acaagtagcc | ggctcatcga | attctttcta | gagatttttg | atctttgttg | 7200 |
| aaattttcat | catgtttgat | gatgcattac | aagaccaga | agccatgaca | attgattgtt | 7260 |
| gctgctggcc | tagaacatca | atttttcatg | ttaaataaat | tgcactcaaa | aaggaccaca | 7320 |
| accacaaagt | aggcacactg | gaagctgaaa | cttaacatgt | gacatgcac | tgtcttattt | 7380 |
| ttaggtaaac | cccaaaagag | gacagggagt | tcctgttttc | atttaagaag | aagagagtga | 7440 |
| cccgcacatg | tcataactag | agctttgatg | tattggcaat | cttgtcaggg | aaaaaccgta | 7500 |
| ctttagtaca | ggatccagtg | tttgccccat | ccatggcaaa | caacagtgt | ggtagtacta | 7560 |
| atattttgtg | tcagattgta | atattgtcaa | taggggtgata | aaaaagaggt | tcagttcctt | 7620 |
| gctactcatt | ggctgcacat | ggtaaaggat | ggcctaacat | agactaataa | atatctaaat | 7680 |
| gcatggagat | ggagtcaatt | tcttgtgggt | cccactagac | aagaaa | | 7726 |

<210> 33

<211> 2417

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-142-27 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (2020)...(2021)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-142-27

<400> 33

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|------|
| cgggggaaaa | aatgcgttgt | acccaatgca | ttatctcctt | tttctttcat | ttagaaaagg | 60 |
| cggggtgagg | aattttatgc | tggttggcac | cctttttccc | tcttttataa | agtccacccg | 120 |
| acctcaccta | atgtcaaaa | aaaccaacgg | caggaggagg | gagacacctc | gaggaaacca | 180 |
| cagcacccaa | agaacaagaa | aggcgatacc | ccttctccca | ccaccaccgt | ttccgtccat | 240 |
| ctccatcctc | accgccggcg | acgctcacct | ccgacgaccg | atcggcgacc | tgcttcagcc | 300 |
| atggcaatgg | cttacaagat | ggtaatccag | tctgtcacac | accttggtta | ttgagtccat | 360 |
| gggtcgtcgt | cgttgcggcg | ttctgatgga | gtatgtgggt | tggtgtcgtc | tgtgcaggcg | 420 |
| acggagggga | tgaacgtgaa | ggaggagtgc | cagagggtgg | tcattggagat | gaagtggaa | 480 |
| aaggtgcacc | ggttcgttgt | gtacaagatc | gacgagcggg | cgcgcgccgt | gctggtggac | 540 |
| aaggtggggc | gccccggcga | aggggtacgag | gagctcgtcg | ccgctgtgcc | caccgacgac | 600 |
| tgccgctacg | ccgtcttcga | cttcgacttc | gtcaccgtcg | acaactgcc | gaagagcaag | 660 |
| atcttcttca | tcgcctggta | attaattaac | ccaaccagc | tcctccctct | aattaatctc | 720 |
| ttatcaagt | attcgattcc | atcttattcc | atgtctgatc | tcgattaact | agcggtaatt | 780 |
| caggatcttg | ttaggaaagg | taaacacggg | gagctgtatc | catcgtaga | tgccatatct | 840 |
| cgagcgttct | tataaagg | gcatattaaa | tcgtctcttc | tgctgtccaa | accgcaacgg | 900 |
| cacaagttgt | tctctgaaag | aactcgtgct | ttggaagata | cagtttggaa | gatatgcaag | 960 |
| cgattgataa | actgcgggct | gcggcaacta | gctaaagaga | acaaatccct | tttcgccttt | 1020 |
| tgcactaatg | aagaactcta | agttcatgca | attacacaat | gtacgcgcaa | cttacttaat | 1080 |
| acctaaacct | cgattgatca | tagtcgtttc | gtaccataag | aaaagatgtc | acatatcaca | 1140 |
| atcactcatc | cggtcatgat | tgagaaatca | aattaattct | ggcaccttac | atactattgt | 1200 |
| acactggcag | acaagtcttc | ctgagcctta | ttaggtgctg | acgagcatca | taaaaacgac | 1260 |
| taaaaatctg | cagggcgaat | gactgttcca | atcaatgccg | catccttatc | acaaagaagg | 1320 |
| atggataggt | caccaagctt | tctctatttt | ccacaaaaag | tttgcttgcc | tctcagacgc | 1380 |
| atccccgttg | ccttgtcaaa | cgaagcttta | gtcgaaatca | tgacggggac | ccatcatctt | 1440 |
| tgtaaatcac | tgttgtcttt | agtaacttct | atgcataatt | ttgcttaatt | aacctccact | 1500 |
| gccaaggccg | gttcttttat | cagatctgat | ctggcctgaa | tccacctgtt | gtcgtatctg | 1560 |
| ctgtccttgg | atattcatag | atccatcatc | aaaagcaagg | ttcgtgcgca | cccacgccag | 1620 |
| tagtagccac | agctgcagta | ttattgtcca | ttcaacattt | cactgtcttt | agtgcagttc | 1680 |
| aattacttct | ttcctggcat | gtccttttgt | caagaaacaa | agattatcag | ataagatcga | 1740 |
| gaggtatact | ttaaacacca | acaaacaaca | caattagagt | actgttaaagt | gagtccatct | 1800 |
| gctatctagc | tctagtttcc | ttttgttaaa | cactttgaaa | ggactttggg | tcgatagcaa | 1860 |
| ccgctgcagt | tgcaaatgtt | caatattgtt | tagcgagtag | cagcctgcac | tgtcgttgat | 1920 |
| tgaggattcg | ttgcttggtt | tgccctaccgt | catggggcctt | tttcagggtca | ccgaccgcat | 1980 |
| cgaggataag | agccaagatt | ctgtacgcga | cgctgaagca | agggctgagg | cgggtgcttg | 2040 |

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| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------|
| acgggggtcca | ctacgaggtg | caagccacgg | actcctccga | gatgggctac | gacgtcatcc | 2100 |
| gaggccgcgc | tcagttagct | gagctcctcc | ggcgccggcg | cgccgccgcg | acgcgatgag | 2160 |
| tcgcggggcg | ggttgcggcg | ctgtacttag | cacgtactca | ccccagtggt | gtgtggtata | 2220 |
| atcgagcgga | tgctaattgg | ctctctcggt | ctcgtagtag | ggcggtgat | gatgcgatct | 2280 |
| gacgaggggt | tgtgaatttg | gttttagagtt | tggcgtggcg | tggcgtgctg | tttcgttttg | 2340 |
| agagttggag | gggtgtgtgt | agcgtggcgt | gttgctgagg | gagtggcagc | ggattagtga | 2400 |
| aacgtcccat | gtcgggtg | | | | | 2417 |

<210> 34

<211> 4941

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-140-04 - genomic DNA without T-DNA insert

<221> misc_feature

<222> (773)...(774)

<223> location in genomic DNA where T-DNA was inserted
to create line 1C-140-04

<400> 34

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ataatccaaa | atttaaatcca | cactttttaa | tggattcgaa | cgggggccata | gtactgtcac | 60 |
| ttttcttatt | taagatatag | aattttacatc | ggttttcatt | aacaagcttt | aattttcacct | 120 |
| ctgaatccaa | aatttctccaa | atttatctcca | ctctccatcc | tctaatacaa | taagaacaag | 180 |
| cagcccttct | aaaaaaaaaat | aaaaagaaaag | aaaaagaaaag | aaaaaaaaaaa | gaaagaagaa | 240 |
| ggagcaagcc | tcgcctactt | aagcacaaca | gcagccttgc | tccagctgcg | agctagagcc | 300 |
| atggcgaccg | gagagctcgc | tctcgtgtcc | tcgctgttca | tcgtcgtcgt | gttcctcttg | 360 |
| cttggtgctg | tggcgagaga | ggcttctgcg | ctcaccgcgc | atgacttccc | cgagggcttc | 420 |
| gtcttcggcg | caggctcctc | cgctttccag | gtatatatac | ataaaatcca | tcgatcatgc | 480 |
| atgtcagaag | ctcatcatgc | tcagatgctc | atcctgctca | cgctcaatgc | tcagtctctg | 540 |
| ctgaaatttg | gcggaatttg | ttgcatcgga | tttggttttc | cgtattgcat | catgtttgta | 600 |
| tatgccaaga | tatgtgctta | ctaccgtgtg | agcaatgctg | ttcaagaact | gaatttgttt | 660 |
| ttgcaaatgt | gtcacacctg | gagtaggtgg | aaggggcagc | tgcagaggat | gggaggaagc | 720 |
| ccagcatttg | ggacaccttc | atccatcaag | gtccaaaaaa | atggagtaga | tgataatctt | 780 |
| ctcctcatgc | ttttattctg | gaacattttt | tttcttgtat | gttctttatt | tacgcatgca | 840 |
| tatgtttgca | ttgttctaga | atgaatatgt | ccatgattga | tgcttacagg | gtacatgcct | 900 |
| gacggctcca | atgcagatgt | ctcagcagat | cagtatcacc | attacaagggt | cagtataaag | 960 |
| ttcagatatg | acacaaaatc | tataaaaaag | atcagtttaa | tctacctttt | tttattttca | 1020 |
| atgatttcag | gaggatgtaa | agcttatgta | tgacatgggg | ctggatgcgt | acagattttc | 1080 |
| cattgcttgg | cctcgtctta | ttccgggtag | acataatcac | ataaataagg | tagtactact | 1140 |
| gaatatcttc | tgaacactta | tgacagttag | ttttcaaattg | tttttagatg | gaagaggaga | 1200 |
| gatcaacccc | aagggccttg | agtactacaa | caatctgata | gacgaattga | taatgcatgg | 1260 |
| tacacattac | ttgctgcacc | ttggatttat | tcctagctga | atcttgatcg | gtagactcat | 1320 |
| cttctgtcat | gtattggcag | gaatacaacc | tcatgtcacc | atctaccatt | ttgatctccc | 1380 |
| tcaggccctt | caggatgagt | atggtggaat | actcagcccc | agattcatgt | aggcaccctg | 1440 |
| agaaactcca | caaaatccta | tgtaatctaa | atgttttcat | gacacaagct | gatccaaatg | 1500 |
| gtgatgaatt | caggcaattc | cctaataattt | tttttatatt | tttttagaga | tgggtatttt | 1560 |
| ttaccgggtc | tctacatcca | accgatata | tgcaaccttt | ttaaattagg | aacttagcct | 1620 |
| atcaagcagg | gaacttagcc | ctcaaataac | ccaatctgaa | attcgtcctt | ttgaagattt | 1680 |
| gaactcagga | ccatagggtg | ctactcaggt | ccaattccct | gacatgttgc | cacatattat | 1740 |
| atttcagaga | agattactcg | gcttatgccg | aggtgtgctt | caagaacttc | ggtgacaggg | 1800 |
| tgaagcactg | ggccaccttt | aaccagccga | acatcgagcc | catcggcggc | ttcgacggcg | 1860 |
| gcgaccggcc | ggcgggcgcg | tgctcctacc | ccttcggcac | caactgcacc | ggcggcgact | 1920 |
| cctcgacgga | gccgtacatc | gtggctcacc | acctgctgct | cgctcatgcc | tcggcagttg | 1980 |
| ccatctacag | acagaaatac | caggtcacia | tactgaattc | atactgtgtt | cattagtatg | 2040 |
| tctttggtgt | gtctttcaca | taccaagaaa | tggctccctga | acattgaatt | ggacatgaca | 2100 |
| gcaggcaatt | caaggaggcc | agatagggat | cactctcatg | gttcgggtggc | atgagccata | 2160 |
| caccgacaaa | acagccgatg | cagctgctgc | ctattagatg | aatgaattcc | atattggatg | 2220 |
| gttagtactg | ctacttaaat | tgacgtacca | actagccatg | tcataactaa | ctactccact | 2280 |
| aactactact | ccctccgttt | caaaatgttt | gacaccgtcg | actttttaag | tacgtgtttg | 2340 |

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```

atcattcgtc ttattcaaaa aatttaaata attatatttatt cttttcatat catttgattc 2400
attgtttaat atactttaat gtacatatag ttttacatat ttcacaaaat tttttgaata 2460
agacgaacgg ttaaatacgt actgtgtcaa acattttgaa acggaggagg tactccgtag 2520
tactttaatt ctccggcattg ctatctcaaa tcccaagtac actcatgaca aacttaaaac 2580
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ttcggttcag caatttgtaa gtcaagtact ccttcattcc caaattgatc atcatatatg 2700
tttatgtacc aagaccaaag ataatttaaa tcacatcaat caagatatca tgcacatatt 2760
ctcccacaat gcatgcatcg attaaaatac cataccaatt acaccttaat atgcagacat 2820
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gacttcacgc gcatcaacca ttactacggt catcgacgca ggtgttctca aatccatcga cgcgaatgag 3240
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gatgttccca agctaagtaa tcagtcaaac tttgcatgca ttacccatgg ctttctacaa 3360
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agagttgttt ttgaaaatgt ttcaaggcat tagaaattca gtcttgatag tcctttcgag 3540
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atggttaggtc cgaattctgc gtgggaaatg tttttaatcc ctgaggggat attccttcgt 3840
ttcttatatg tcacctaaaa agttataaac tttttttaa aaatgataag atagattaat 3900
atgaaatata ccattccacat acgtgtaagt taaaaattta acttctataa gttggttaaca 3960
gaaataatga atataactgt gaatatatgt taactatttt tagtttaatt tattttttt 4020
tcctaacttg ttgaaatcaa atttgatctt gcatgtttgt aaatgatata tattaatata 4080
ttttgttaat ttttttaaaa aaagcaaatt gtaactattt aggtgacatt caagaaacga 4140
acagatctca tctagaggga tgaaaatcca tcttccatag ttcttggtag ctttaaaatg 4200
gcatttgtca ctggcttagt acgatgtaaa ttatgttttt tcctcgtatc ctcaggttat 4260
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ttgcagggtc acctggaagc tctgtatttg tccgtacggt gcgctcactc tccttgctac 4380
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gtgcaggccc ccctttgccg gttcggccgg ggaccctggg tgaggttcta agctcttggt 4500
atgtggaagg ttcgcgagag tggaaacaca caagacacgg gcgaagtata caggttcggg 4560
ccgctgagaa gcataatacc ctactcctgt gttttggtgg atctgtgtat gaagaagcta 4620
caaagtgcga gccagccccc gatcgttctg ggtactgtct ttttttttcc cccaagtgg 4680
gcaaggctct ccttttatat ctcaagggga taccacatgc accatctctc tcttttgtgt 4740
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tttgtatggt tgccgtctga atgaccttct gatgggacgg cccataccta cctccacttc 4860
cgccggaggc aggcgcgacg tgggaacgtg gctgtctgct gacgacatga ccagtgtcag 4920
accggttaca aatcggtcat t 4941

```

<210> 35

<211> 672

<212> DNA

<213> *Oryza sativa*

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-115-22 coding sequence

<400> 35

```

atggccaagc tgatcctcgc caccttcgcc gtcgtgttca tggcgtcgc cgccacctcc 60
ctcgccggcg acccggacat gctccaggac gtctgcgtcg ccgactacaa gtccctcaa 120
ggcccgtgc ggctgaacgg gttcccgtgc aagaggatag agaacgtgac ggcgaacgac 180
ttcttcttcg atgggctgat gaaggccggg aacacgggga acgcggtggg gtcggtggtg 240
acggcggcga gcgtggagag cctgccgggg ctgaacacga tgggggtgtc catggcgcgt 300
atcgactacg cgcatgggg gctgaaccca cgcacacgc atccccgtgc caccgagatc 360
atcttcgtcg tcgagggctc cctcgacgtc ggcttcgtca ccaccgcaa caagctcttc 420

```

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```

acccgcaccg tctgcaaggg ggaggtgttc gtcttcccgc gggggctcgt ccacttccag 480
aagaacaacg gcaacacgcc ggcgttcgcc atcgccgcct tgaacagcca gctccccggg 540
acgcagtcca tcgccgccgc gctcttcggc gccgcgccgc cgctgccgtc ggacacgctg 600
gccagggcgt tccaggtcga cggcggcatg gtcgagttca tcaagtccaa gttcgtcccc 660
cccaaatact ag

```

```

<210> 36
<211> 999
<212> DNA
<213> Oryza sativa

```

```

<220>
<221> misc_feature
<222> (0)...(0)
<223> line 1B-164-43 coding sequence

```

```

<400> 36
atgagctccc ggatggccgg atcggcgatc ctccgtcacg tcggcggcgt ccgcctcttc 60
accgcgtcgg cgacctctcc ggcggcggcg ggcggcggcg cggcgaggcc gttccttgca 120
ggcggagaag ccgtccccgg ggtgtggggg ttgcggctga tgtccacgtc gtccgtggcg 180
tcgacggagg cggcggccaa ggcggaggcc aagaaggcgg acgcggagaa ggaggtgggt 240
gtcaacagct actggggcat cgagcagtcg aagaagctgg tgcgggagga cggcacggag 300
tggaagtggg cttgctttag gccatgggag acctacaccg cggacacttc gatcgatctg 360
acgaagcacc acgtgcccaa gacgctgctc gacaagatcg cctactggac cgtcaagtcg 420
ctgcgcttcc cactgatata cttcttccag aggaggtatg gctgccgcgc gatgatgctg 480
gagacggtgg cggcggtgcc ggggatgggt ggcggcatgc tgcctcacct ccggtccctc 540
cggcgcttcg agcagagcgg cggctggatc cgacgcgtgc tggaagaggc cgagaacgag 600
cgcatgcacc tgatgacctt catggagggt gcgaacccaa agtggtagca gcgcgccctc 660
gtcatcaccg tccagggcgt cttcttcaac gcctacttcc tgggttacct cctctcccc 720
aagttcgcgc accgcgtcgt cggctacctc gaggaggagg ccatccactc gtacaccgag 780
ttcctcaagg acctcgaggc cggcaagatc gacaacgtcc ctgccccggc catcgccatc 840
gactactggc gcctccccgc caacgccacg ctcaaggacg tcgtcaccgt cgtgcgcgcc 900
gacgaggtc accaacgcga cgtcaatcac ttgcatacgg acatccatta ccagggcgat 960
gagctgaagc agaccctgc gccgatcgga tatcactga
999

```

```

<210> 37
<211> 3216
<212> DNA
<213> Oryza sativa

```

```

<220>
<221> misc_feature
<222> (0)...(0)
<223> line 1B-192-40 coding sequence

```

```

<400> 37
atgggtatgt cagctataca cattgcagtc gtagcaatgc tcgtctccct tacagcatta 60
gcaatagctg acgaatccga caataaccaa cgggaagctc tgctctgcat caaatcacac 120
ctctcaagcc cagagggagg cgccctcacc acatggaaca atacctcgtc cgacatgtgc 180
acctggcgcg cgtgacatg ctccagcgag ctcccaaagc ctctgttggt cgtggccttg 240
gacatggagg cacagggcct cagcggagaa atccccacct gcatctccaa cctctcgtcc 300
ctcacgagaa tccacctccc caacaatggc ctctccggtg gcctcgcatc cgcagccgat 360
gttgccgggc tccgatacct caacctcagc ttcaacgcga tcggcgggtg gatcccaaaa 420
cgcttgggta cgcttcgcaa ctttctgtcc ctggacttaa caaacaacaa cattcatggc 480
gagatccccg cgttgcttgg gagctcatct gccttggaaat ccgtcggctc cgccgacaac 540
tacctgaccg gaggaatccc attgttcttg gctaattcgt cctcgtctcg ctatctttcc 600
ttgaagaaca atagcctcta tgggagcatc cctgcagcac ttttcaacag ctcaaccatc 660
agggaaatat accttgagaa aaacaatctt tctgggtgaa ttccaccctg aacaatattc 720
ccttcccaga tcaccaacct tgatcttaca acgaatagcc tgacaggagg cataccacca 780
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```


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| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| caagttctga | ttatgtctga | caatcatttt | catggagaaa | tccctaaatc | tctagcaaat | 1080 |
| gcttccaaca | tgcagttcct | gtatctggcc | aacaactctt | tgagaggggt | gattccttct | 1140 |
| ttcggcttga | tgacagattt | gcgggtcgct | atgctgtact | caaaccagtt | agaagctgga | 1200 |
| gactgggcat | tcctgtcatc | cttgaagaat | tgctccaatt | tcagaaaact | gcactttggc | 1260 |
| gaaaacaacc | tacgcgggga | catgccagc | tctgtagccg | aattgccgaa | aacattaact | 1320 |
| tcactagctc | ttccgtcaaa | ctacatatct | ggcaccattc | ctttggagat | tggaacctta | 1380 |
| tctagcatat | ccctacttta | tcttggtaac | aatctattga | caggagcat | acctcact | 1440 |
| cttggccaac | taaacaatct | tggtgtcctt | agcctttcac | aaaacatatt | ctctggagaa | 1500 |
| ataccacaat | ccattggtaa | cttgaatcga | ttgactgaac | tctatttagc | agaaaatcaa | 1560 |
| ctgactggaa | gaataacctgc | aactttatcg | aggtgccaac | aattggtggc | attgaacctt | 1620 |
| tcatgtaatg | cccttactgg | aagcataagc | ggagacatgt | ttatcaagct | aatcaattg | 1680 |
| agctggctac | tcgatttatc | acacaaccaa | ttcataaact | ccataccact | agaacttggg | 1740 |
| agcttgataa | atcttgcttc | tttgaacatt | tcccacaaca | aactcacagg | caggatccca | 1800 |
| tctacacttg | gttcttgctg | ccggttgga | tcgcttcctg | taggaggcaa | cttcctagag | 1860 |
| ggaagtattc | cacaatcatt | agcaaatctc | aggggcacca | aagtgtgga | tttctcccag | 1920 |
| aacaatttat | ctgggtcaat | accggatttc | tttgggactt | tcacctcatt | acaatatcta | 1980 |
| aatatgtcat | acaacaactt | tgaggggcca | attccagtag | atggaatctt | tgcgacaga | 2040 |
| aataaggtgt | ttgtccaagg | aaatccacac | ctttgcacca | atgttccaat | ggatgagttg | 2100 |
| actgtctgct | ctgcttcagc | atccaaaaga | aagaataagc | tcattattcc | aatgttggca | 2160 |
| gctttttcat | ctataatctt | actttcttca | atcctcggat | tatatttctt | gatcgtcaat | 2220 |
| gttttcttga | aaaggaagtg | gaaatccaat | gagcacatgg | atcacaccta | catggaactg | 2280 |
| aaaacgttaa | catatagtga | tgtaagcaaa | gcaacaaata | atttttcagc | agccaacata | 2340 |
| gttggtctctg | ggcatttttg | gacagtctat | agaggtatac | tgcatacaga | agacactatg | 2400 |
| gtcgtgttta | aggtgttcaa | gctcgatcaa | tgtggtgcat | tgacagctt | tatggcagag | 2460 |
| tgcaaagcac | tgaagaacat | ccgtcaccga | aatcttgtca | aggttataac | tgcatgctca | 2520 |
| acttatgatc | cgatgggcag | tgagttcaag | gctctagtat | ttgaatatat | ggctaattgg | 2580 |
| agccttgaga | gccggcttca | cacaaagttt | gctcgatgtg | gtgatttgag | tttgggagaa | 2640 |
| aggattagca | tagcattttga | tattgcttct | gctctagagt | accttcacaa | ccaatgcatt | 2700 |
| ccacctgttg | ttcactgcca | tttgaagcca | agcaatgtac | ttttcaacaa | tgatgatgtt | 2760 |
| gcatgcgtct | gcgactttgg | tctggcaagg | tcaattcgtg | tttattcatc | tggaactcaa | 2820 |
| agcatatcaa | caagtatggc | tgggccaagg | gggtctattg | ggtacattgc | tccttatggc | 2880 |
| atgggcagtc | aaatctcaac | tgaggggtgat | gtctatagtt | atggcattat | tcttctggaa | 2940 |
| atgctaacag | gaagacaccc | taccaatgaa | atatattact | atggcttgac | actccgcata | 3000 |
| tatgtcaatg | catcactttc | acaaatcaaa | gacatacttg | accccaggct | tattccagaa | 3060 |
| atgacagagc | aaccttctaa | tcataccctg | caattgcatg | aacacaagaa | gacaccatct | 3120 |
| cgatgcaaac | tgggaggggt | ggaggggtatt | ctcacatgta | cgataagaga | aattgcatca | 3180 |
| aaattaggag | ggcttagatt | atctatgcta | acgtga | | | 3216 |

<210> 38

<211> 1914

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-207-27 coding sequence

<400> 38

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| atgcaagatc | atatacttac | agctttttctg | gttgtttctc | tcctctttgc | atgcattcct | 60 |
| cctgccaaga | gtgctgatct | gaactccgac | aagcaggctc | ttcttgcat | tgctgcctca | 120 |
| ctgccacatg | gcaggaagct | caactggagc | tctgcagccc | cagtctgcac | ttcatgggtt | 180 |
| gggggtgactt | gcacaccaga | caatagccgc | gtgcaaacac | tacgcctacc | agcagtaggg | 240 |
| ctctttggcc | cgctaccctc | agacacgctt | ggcaagcttg | atgccctgga | ggtattgagc | 300 |
| cttaggtcca | atcgcatcac | tggtgatctc | cctcctgaag | taggatccat | tccttctctc | 360 |
| cattccctat | atcttcagca | taataacctc | tccgggatca | taccgacttc | ccttacttcc | 420 |
| actttaacat | ttctagatct | gtcatacaac | acttttgatg | gagaaatccc | attgagagtg | 480 |
| caaaatctca | ctcaacttac | tgcatgtgctt | ctccagaata | actctctttc | tggaaccttc | 540 |
| cctgacctcc | aactcccaaa | attgaggcat | ttgaatttga | gcaacaataa | cctcagtggg | 600 |
| ccaataccac | cttccttgca | aagattccca | gccaatctct | tcttggggaa | tgcttttcta | 660 |
| tgtgggtttc | ctttacaacc | ttgccctggg | actgcacctt | caccttctcc | ttctccaaca | 720 |
| tcaccatcac | ccggcaaggc | caagaagggc | ttctggaaaa | ggatcagaac | tggtgttata | 780 |
| attgcacttg | ctgccgcagg | aggggtattg | ttgctaattc | tgattgtttt | actcttgata | 840 |

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| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| tgtattttca | agagaaagaa | aagcacagaa | cctactacag | cttcttcgct | aaaaggaaaa | 900 |
| actgttgctg | gtggaagggg | agaaaatcct | aaggaggagt | acagcagtgg | tgttcaggaa | 960 |
| gctgagagga | ataaattggg | tttctttgag | ggctgttcac | ataattttga | cctagaggat | 1020 |
| ttgctgagag | cttcagctga | agtccttgga | aaaggagatt | acggaactac | ttataaagct | 1080 |
| gttcttgagg | atggcaccac | agttgtgggc | aagagattga | aggaggtggg | cgtggggaag | 1140 |
| aaggattttg | aacagcagat | ggagatagtt | ggcagggttg | gccagcacca | gaatgtttgc | 1200 |
| ccattgcgtg | cctactatta | ctccaaggat | gagaagctac | tggtgtatga | ctatatccca | 1260 |
| tctggtagcc | ttgctgttgt | tttgcatggg | aataaagcta | ctggaaaagc | tccattggat | 1320 |
| tgggagacga | gggtaaagat | atctcttggt | gtggctcgtg | gaattgctca | tcttcattgt | 1380 |
| gagggaggcg | ggaagtccat | ccatggcaac | ctcaagtcac | caaacatcct | tctgtcacag | 1440 |
| aacctcgacg | gctgtgtctc | tgagtttggt | ctggcacagc | ttatgaccat | tccaccagct | 1500 |
| ccagcacgcc | ttgtcggata | tcgtgcacca | gaagtcctcg | agactaaaaa | gccaaccag | 1560 |
| aagtctgatg | tctacagctt | cgggtgtgtg | gtcctcgaaa | tgctgacagg | aaaagcgct | 1620 |
| ctgagatctc | ctggacgaga | ggactccatt | gagcacttgc | caaggtgggt | gcagtctgtg | 1680 |
| gtccgggaag | aatggaccgc | ggaggttttt | gacgtcgact | tggttaaggca | tcccaacatt | 1740 |
| gaggatgaga | tggttcagat | gctccaggtt | gcaatggcat | gtgttgccgc | ccccctgat | 1800 |
| caacggccaa | aaatggacga | ggtgatcagg | aggatcgttg | agatccggaa | ttcctactcc | 1860 |
| gggtcaagaa | caccaccgga | ggagaagcag | aaggatgaat | ctgcagcgcc | atga | 1914 |

<210> 39

<211> 1571

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1B-138-07 coding sequence

<400> 39

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|------|
| atggccgcgc | cgctctccac | cgccgccgcc | gcctcgtggc | tctccgacag | cgctcgtct | 60 |
| ccgcctaggg | tgcgcctcct | catcgccggg | gagttcgtcg | agtcgcgggc | cgacgagcac | 120 |
| gtcgacgtca | ccaatccggc | gacgcaggag | gtggtgtcgc | ggatcccgc | caccaccgcc | 180 |
| gacgagttca | gggccgccgt | ggacgccgcc | aggaccgcct | tccccgggtg | gcggaacacg | 240 |
| ccggtgacca | cgccgcagcg | catcatgctc | aagtaccagg | agctcatccg | ggccaacatg | 300 |
| gataaactgg | cagagaacat | tacaaccgaa | caggggaaga | cactgaagga | tgcttggggc | 360 |
| gatgtattcc | gtgggctagg | tggtggaaca | tgcttgtgga | atggggacac | tgcatatggg | 420 |
| tgaatatgta | tcaaatgttt | ctaaccggat | tgacaccttt | agcattaggg | agccacttgg | 480 |
| tgatgtgtct | ggaatatgtc | cattcaattt | tccagctatg | atccccctat | ggatgttccc | 540 |
| aatagcggtc | acttgtggca | atacttttgt | tctaaagcca | tcagaaaaag | atccaggggc | 600 |
| tgctatgatg | cttgccggagc | tagcaatgga | ggctgggtta | ccaaagggtg | tggtgaacat | 660 |
| tgttcatggg | acccatgatg | ttgtgaacaa | catttgtgat | gacgaggaca | tcaaggcagt | 720 |
| ttcctttgtt | ggttccaata | tagctggtat | gcataatat | tctagagcat | cggcaaaggg | 780 |
| gaagcgtgtt | cagtctaata | tgggtgcaaa | gaatcatgca | attatccttc | ctgatgtcta | 840 |
| ccgagatgcc | acactgaatg | cccttattgc | tgctgggttt | ggtgctgctg | ggcaaagggtg | 900 |
| tatggcattg | agcactgctg | tttttgttgg | aggttcagag | ccatggataa | gacctggcat | 960 |
| tagggaggat | gagctagtca | aacgtgcaag | cagccttgtg | gttaattcag | gaatggctag | 1020 |
| tgatgcagac | cttgggtccag | tgatcagcaa | acagggtctaa | ggaacgtatc | tgcaaattaa | 1080 |
| tacaaagtgg | tgctgataat | ggtgctcgtg | tgctgcttga | tggaagagat | attgtggttc | 1140 |
| ctaacttcga | gaatggtaat | tttgttggtc | caacactcct | tgctgatgtt | aaaagtgaag | 1200 |
| tggaaatgta | caaggaggag | atttttgggtc | cagttcttct | cttgatgaag | gctgagagcc | 1260 |
| tagatgatgc | tatccaaatt | gtgaacagaa | acaaatatgg | caatggagca | tccatattta | 1320 |
| caacatctgg | tgtgtctgca | aggaaatttc | aaacagacat | tgaagctggc | caggtgggca | 1380 |
| tcaacgtgcc | gattccagta | cccctgccgt | tcttctcctt | caccggcagc | aaagcctcct | 1440 |
| ttgcaggaga | cttgaatttc | tacggcaagg | cgggcgtgca | gttcttcacc | cagatcaaga | 1500 |
| cggtcacgca | gcagtggaa | gagtcgccgg | ctcagcgcgt | ctccctctcc | atgccaccct | 1560 |
| cgagaagtga | a | | | | | 1571 |

<210> 40

<211> 1323

<212> DNA

<213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1D-059-12 coding sequence

<400> 40
 atggccgccc cgcgccaccgc cgccgtcccc ctcgacgagg ccaaagccaa ggaggttctc 60
 cgccaggtgg agttctactt cagcgacagc aacctcccc gcgacaactt cctgcggaag 120
 acagtcgagg agagcgagga tggcgtgagc ttggcactca tctgctcctt ctcgcggaag 180
 aagaagcacc taggcctgga cgcggacgtg aagcaggaga ccatgccgga ggagacggtg 240
 ctcgccgttg ctgaggtgct gcggcggttc tcggccctcc gtgtcaccga ggataagaaa 300
 gttggtagat caattgagtt gtcgaaactg gatgagatca tggagcaagt ggactctagg 360
 acaattgctg catcaccatt tccttacaat gtaaagctgg aagatgttca gtctttcttt 420
 gctcagtatg gcaaggtgaa cagtgtgagg ctacctcgac atattgccga caaacgacac 480
 ttctgtggca ctgctttagt cgaattttca gaagaagagg aagcaaagtc tgtattaaag 540
 aatactcttg tttttgcagg agcagatctg gaaataaaac caaagaatt cgatactgaa 600
 agagaggcta agaaagaagc ttatgagaag tcacaaccta ctaagaatgg tcatgatgag 660
 tatccaaaag gtctaattgt ggcttcaag ctgaagataa ttcaaattga tgggtggcatg 720
 gcagaaaatg gtggggacaa agaggggtgaa actgatgatg ccaataaatc aagaacaggg 780
 catgacgaga aaatccctga gaacagtgat atcaaggaag acttgtcaga tgatgttgag 840
 aagtcaaaag aggcagctgc tcaatctggt aagaaaggag aaagtccttc agaaaatgag 900
 gatgatccaa tttcaaggga agattttaaa gaagaatttg gcaaattcgg cacagtgcgg 960
 tatgtggact tcagcatagg ggaggattca ggatacattc gggtcgagga ttctaaggca 1020
 gctgaaaagg cccgtgcact tgcggctatt tcagatgaag gtggtttgat tatgaagggc 1080
 catcttgtaa ctttggaacc tgtgtctcaa gctgagaagg attattggag tgcgataaag 1140
 ggcggtcaag gaaaatatag agacaataga agtaacaggg gagccgatcc tcttaaatat 1200
 cataatgcac cttagaggag gggctgaaac ttaaaataga agttgaagcc 1260
 ttatggcaca caagaatgcc aacacatata tttggagtta tattatcatg gaactggcag 1320
 taa 1323

<210> 41
 <211> 2568
 <212> DNA
 <213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1C-087-40 coding sequence

<400> 41
 atggccacac gttattggat cgtgtctctt cccgtgcaga ctcttggtct caccgccaat 60
 tctctctggg cgcgcctcca ggactccatc tcgcgccact ctttcgacac gccgctctac 120
 cggttcaacg tccccgatct ccgcgtcggc acgctcgact ccctcctcgc cctcagcgac 180
 gatctcgta agtccaacgt cttcatcgag ggggtctcgc acaagatccg gaggcagatc 240
 gaggagctag agcgcgccgg ggggtgtcag agtggggctc tcaccgttga cggcgtcccc 300
 gtcgacacct acctcacctt tgtgtgggat gagggcaaat acccaacgat gtcaccgctc 360
 aaggagattg tcggcagcat ccaatcacag gtctccaaga ttgaagatga catgaagggt 420
 cgaggagcgg aatacaataa tgtaaggagc cagcttagtg cgatcaacag aaagcaaact 480
 ggattagcag ttcgtgatct ttccaatctg gtaaaaccag aggatattgg cacatcagaa 540
 catctagtga cactccttgc agttgttctt aagtactctc aaaaggattg gttgtcaagc 600
 tatgagtcct ttgacacatt tgtggtaccg agatcgtcta aaaaacttta tgaggacaat 660
 gagtatgctc tctacacggt aacattgttt gctaagggtg ttgacaactt taagggtccg 720
 gcacgtgaaa aaggtttcca gggtcgcgat tttgagtata gttctgaagc acaggaaagt 780
 aggaaggaag agctggaaaa gctaattgaa gaccaggaag caatgagggc atcacttctg 840
 caatgggtct atgccagcta cagtgagaat accatttatg tacgtcatgc taaagtgcag 900
 aactttgtgc ttctctatgt attcagttcc tggatgcact tctgtgctgt gcgtgtcttt 960
 gtagagagca ttcttagata tggcttcccc ccatcattcc tgtctgctgt tctagcacct 1020
 tctcaaaagg gtgaaaagaa agtaaggagc atcctggagg aactctgtgg caatgtccat 1080
 atttactgga aatctgaaga cgatgttggg gtagctgggtc tgggacaccg tgtaagatgt 1140
 tgtggatatt atgtttttgt aactttgagc agccagaagg acaagttggg ggttatgtat 1200
 agaacgtcaa tccttggtga cccagttccc actgatgata gtagagtaga caagacacaa 1260
 gaggagatga tgggtcaagga gaaggagata cacgtgatgt ccaaccggcg tcgcaagcgc 1320

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| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| ggcgaatcca | agccccaagc | ccacgacgcc | ggcgacacca | cgcccatcga | caacatactc | 1380 |
| acctccctcg | acgacgcccc | gccaccgcc | cctccaccgc | gccgcgagct | ccccctcctc | 1440 |
| cagctcaacg | accaccaaga | ggcagatgac | gctgacgcct | cgtcgtcgtc | gtcgcgcgac | 1500 |
| cagcagcggc | ggctgtgggt | gaaggaccgg | tcgcgcgcgt | ggtgggagct | gtgcagcagc | 1560 |
| gccgactacc | cggaggccga | cttcgcgcgc | gccttcgcga | tgtcccgccc | caccttcac | 1620 |
| ttcctctgcg | acgcgctcgc | cgccgcccgc | gccaaggagg | acaccgccct | ccgcgcgcgc | 1680 |
| atccccgtcc | gccagcgcgt | cgccgtctgc | gtctggcgcc | tcgccacggg | ggagccactc | 1740 |
| cgcgctcgtc | ccaagcgctt | cggcctcggc | atctccacct | gccacaagct | catcctcgag | 1800 |
| gtctgcgccg | ccatccgcaa | cctcctcatg | ccgcgcttcc | tccactggcc | cgaccacccc | 1860 |
| acctccaccg | cctacaagac | gcgcttcgag | gccacctcgg | gtgtctcggg | ggtggtgggc | 1920 |
| gccatgtaca | ccacgcacat | ccccatcatc | gcccccaagg | tctcgtcgc | cgctacttg | 1980 |
| aaccgcccgc | acacggagcg | caaccacaag | acctcctact | ccatcacctc | ccagggcgtc | 2040 |
| gtcggccccc | acggcacctt | caccgacgtc | tgcacgggt | ggccggggtc | catgagcgac | 2100 |
| gagcaggtgc | tccgcaagtc | ggcgctgcac | cagcgggct | cgccggcgcc | tgggtcgatg | 2160 |
| tcgtgggtgg | tgggcggcgc | gagctacccg | ttgacggagt | ggatgctggt | cccctacgcg | 2220 |
| cagcgcaacc | tgacgtggac | gcagcacgcc | ttcaacgaga | aggtgggcga | ggtccggcgc | 2280 |
| gtggccacgg | aggcgttcgt | ccgcctcaag | ggcggtggg | cgtgcctgca | gaagcgacg | 2340 |
| gaggtgaagc | tgcaggacct | ccccgcggtg | ctcgccgcct | gctgcgtcct | ccacaacatc | 2400 |
| tgcgagacca | ggggggagga | catggacccc | gacctccgct | gcgacctccc | ccccgacgag | 2460 |
| gaggaggacg | acaccgtgct | tgtgcagtcg | gagtcgcgca | acaaggtgag | ggacgacatc | 2520 |
| gcgcacaacc | tcctccaccg | cggattggcc | ggcaccgcct | tcttctga | | 2568 |

<210> 42

<211> 1413

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-017-14 coding sequence

<400> 42

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|------|
| atggacgccc | tcctcgtgga | gaaggtcctc | ctgggcctgt | tcgtggcgcc | ggtgctggcc | 60 |
| ctagtgtggt | ccaagctcac | cggaagagg | ctccgcctcc | cgccggcccc | cgccggcgcg | 120 |
| cccacgtcgc | gcaactggct | ccaggctcgg | gacgacctca | accaccgcaa | cctgatggcg | 180 |
| ctggcgcgcc | ggttcggcga | catcctcctc | ctccgcatgg | gcgtccgcaa | cctggtggtg | 240 |
| gtgtccagcc | cggacctcgc | caaggagggt | ctccacaccc | agggcgctca | gttcggctcc | 300 |
| cgcacccgca | acgtggtggt | cgacatcttc | accgggaagg | ggcaggacat | ggtgttcacc | 360 |
| gtgtacggcg | accactggcg | caagatgcgg | cggatcatga | cggtgccctt | cttcaccaac | 420 |
| aaggtggtgg | cccagaaccg | cgcggttggt | gaggaggagg | cgaggctggt | ggtggaggac | 480 |
| gtccgcccgc | acccaccgc | ggcgacctcc | ggcgtggtga | tcggcggaag | gttgagctg | 540 |
| atgatgtaca | acgacatggt | ccgcatcatg | ttcgaccgcc | gtttcgacag | cgtggacgac | 600 |
| ccgctcttca | acaagctcaa | ggccttcaac | gcggagcgca | gccgcctctc | gcagagcttc | 660 |
| gagtacaact | acggtgactt | catccccgtc | ctccgcccct | tcctccgccc | ctacctcgca | 720 |
| cgctgccacc | agctcaagtc | ccagcgcgat | aagctcttcg | aggaccactt | cgtccaggaa | 780 |
| cgagagtgta | tggagcagac | tggtgagatc | cggtgcgcca | tggaccacat | cctcgaggcc | 840 |
| gagagggaagg | gcgagatcaa | ccacgacaac | gtcctctaca | tcgtcgagaa | catcaacggt | 900 |
| gctatcgaga | cgacgctgtg | gtcgatcgaa | tggggaatcg | cggagctggt | gaaccacccg | 960 |
| agcatccagt | cgaaggctgc | ggaggagatg | gcgtcggtgc | tgggcggcgc | ggcggtgacg | 1020 |
| gagccggacc | tggagcggct | gccgtacctg | caggcgggtg | tgaaggagac | gctgcggttg | 1080 |
| cgcatggcga | tcccgtgct | ggtgccgcac | atgaacctcg | ccgacggcaa | gctcgccggc | 1140 |
| tacgacatcc | ccgccgagtc | caagatcctg | gtgaacgcgt | ggttcctcgc | caacgacccc | 1200 |
| aagcgggtgg | tgcgccccga | cgagtttagg | ccggagagggt | tcctggagga | ggagaaggcc | 1260 |
| gtggaggcgc | acggcaacga | cttcgccttc | gtgcccttcg | gcgtcgcccg | ccgcagctgc | 1320 |
| cccggaatca | tcctcgcgct | gcccattatc | gggatcacgc | tcggccgcct | cgtccagagc | 1380 |
| ttcgacctgc | tgccgcgcgc | cgggatggac | aag | | | 1413 |

<210> 43

<211> 1227

<212> DNA

<213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1C-038-56 coding sequence

<400> 43
 gatgttcagc agcatagtgg cagtagcagc agctcaaccg aatccgacgt ccaagaaacc 60
 gccgctgtcg ccgtcgccga cccctccccg cggtcggagg tcgtcgacgg cgagagcccg 120
 ccgcagccgg gcggcgaggc ggcgagccat cagcagcagc agaaggagat gaagctgaag 180
 aagccggaca agatcctgcc atgcccgcgg tgcagcagca tggacaccaa gttctgtctac 240
 ttcaacaact acaacgtcaa ccagcctcgc cacttctgca agcactgcca gcgctactgg 300
 accgccggcg gcgccatgcg caacgtcccc gtcggcgccg gccgccgcaa gaacaagaac 360
 gccaccgccg ccgcccactt cctccaccgc gtccgcgcct gcgccgccgc cgccgccatg 420
 cccgcggcgc cccacgacgc caccaacgcc accgtgctca gcttcggcgg cggcggaggc 480
 ggacacgacg cgctgcccgt caccctggac ctgcgccgaca agatgacgcg cctcggcaag 540
 gaggggctcg tcgcccattg ccggaacgcc gacgcccggc ccgcgtgcag cgaggtgtcg 600
 agcaacaggg acgacgagca gatcggaac actgtagcaa aacctgcaaa cggttgtagc 660
 cagcatcctc ctctctctca tcatcatcat cattcagcca tgaacggtgg cggcatctgg 720
 ccctactaca cctcggggat cgcatcccg atatacccg cgccgccggc gtactggggc 780
 tgcattgatt cacctcttgg agcttgaggc ctcccatggc cggccacagt ccagtctcag 840
 gccatctcat accatcacc gttacacctt cagtctcttc cttcacacta cttcacacta 900
 ggcaagcatc ctagagaggg tggatgatcat gaggcaagag atcaccatgg caatggtaaa 960
 gtgtgggtgc cgaagacgat ccgatcgac aacgccgacg aggttgcccg gagctcaatc 1020
 cggtcactct tcgccttcag aggcggcgac aaggtggacg ataacaacga cgacgatggc 1080
 accagcgtgc acaagctcgc caccacgggtg ttcgagccaa agagggacgg caagacggcg 1140
 aaacatccgg cgatcacgag cttgccgctc ttgcacacca accccgtcgc gcttaccgga 1200
 tccgcgacct tccaggaggg atcttga 1227

<210> 44
 <211> 861
 <212> DNA
 <213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1C-041-47 coding sequence

<400> 44
 atgggcatca agggtttgac gaagcttttg gcggaacaat cgcccaaggc gatgaaggag 60
 cagaagttcg agagctactt cggccggcgc attgccgtcg acgccagcat gagcatctac 120
 cagttcctct catttgcata ctgcaagagg gaggatgcca ccaaagaact aacagaggca 180
 gtagaggaag gagataaaga cgcaattgaa aaattcagca agagaactgt gaaggtcacg 240
 aagcagcaca atgaagaatg taaacgacta ttaagactta tgggggttcc tgtttagtag 300
 gtttatgcag ttgcatcaga agatatggac tctcttactt ttggagctcc acggtttctt 360
 cgtcatttga tggatccaag ttccaagaaa attccagtta tggaaattga agtcgcgaaa 420
 gttttggagg agcttgaact cactatggac caattcattg acttgtgcat cctatctgga 480
 tgtgactatt gtgatagcat taaaattgga ggtcaaacag ctctgaaact tattcgtcaa 540
 catgggtcca tagaaagcat tctggaaaac ataaataaag actatcagat tcctgaggac 600
 tggccttatc aagaagctcg acgcttgctc aaggaacca atgttacatt ggatattcct 660
 gagctgaaat ggaatgctcc cgatgaggaa gccatagaga agattaaatt tgccaagaac 720
 aaatcttccc aaggactcga atccttcttc aagccagttg ttagcacatc agtgcctctg 780
 aaaagaaagg acacttcaga aaaaccaacc aaagcagtcg ctaacaagaa aacaaaggga 840
 gccggcggaa agaagaata a 861

<210> 45
 <211> 1653
 <212> DNA
 <213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)

<223> line 1C-064-20 coding sequence

<400> 45

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| atggcgctcgg | cccccggcga | cggcaagcag | ggcggcgggc | gcggcgggcc | ggcgggtggc | 60 |
| atcgacctcg | gaacgacct | ctcgtgcgtg | gcgggtgtgg | ggcacgaccg | cgcgagggtc | 120 |
| atcgccaacg | accagcgcaa | ccgcctcacg | ccctcctgcg | tcgccttcac | cgccgacgac | 180 |
| gacgacagct | tcgtcggcga | cgccgccttc | aaccagtcgg | cactcaaccc | aaccaatacc | 240 |
| atctttgtga | agcgactgat | tggccgcgga | ttcagcgatg | attctgtaca | aaaagatatc | 300 |
| aagctttggc | ctttcaaagt | cgtggcaggt | caagaggaca | ggccgatgat | cgtgggtgagg | 360 |
| catgaaggcg | aggaaaggca | gttcattgccc | gaggagatct | cctccatggg | gctcgccaag | 420 |
| atgagggaga | cggccgaggt | gtacctcggc | aagacgggtca | cgaaggccgt | catcactgtc | 480 |
| ccggtctact | tcaacaacgc | gcagcggcag | gccaccatgg | acgccggcgc | catcgccggc | 540 |
| ctcaacgtga | tgcgcatcat | caacgagccc | accgcccggc | ccctcgccta | ctgtctcgag | 600 |
| aagatgcccc | tcagcaacaa | ggggaggatg | gtgctcgtgt | tcgatctcgg | tggcggcaca | 660 |
| ttcgacatct | cccttctcaa | catcgatccc | gaaggcaccg | ccggtgacac | tcaccttggc | 720 |
| ggagcggatt | tcgacaacga | gttggtgaag | cactccttgc | gagagttcaa | tcggaacat | 780 |
| gggtcgatgg | acattgaaag | caatcagaag | gcattaagga | gattgaggac | cgcttgcgag | 840 |
| agagcgaaga | ggatgctgtc | atccacgatg | cagaccacca | ttgaggtaga | ctcgctccat | 900 |
| caaggcatcg | acttccgcgt | caccctcacc | cgatcccgat | ttgaggagct | gaacaaggat | 960 |
| ctcttcagca | agtgcattga | ggctatggag | aattgcctcc | gcgacgcaa | ggtggacaag | 1020 |
| tggagtgttg | acgatgtcgt | cctcgtgggt | ggctccacc | gcatacccaa | ggtgcagaag | 1080 |
| atgctgagtg | agttcttcga | cgggaaggag | ctctgccgca | gcatacccaa | cgatgaagcc | 1140 |
| gtcgcgtatg | gcgccgccat | ccaggcctcc | attttatgtg | gtggaaccga | tgataagagg | 1200 |
| ttggttgata | tgcttctccg | cgaagtcacg | ccgctctcgc | taggtgttga | gactgaagat | 1260 |
| aattgtacaa | tgagcgtggg | gatcccaagg | aacactgcaa | tcccgaccaa | gaagggtgaa | 1320 |
| aacttcacta | ctctctacga | caaccagatc | aacgtgagct | ttccggtgta | cgaggggtgag | 1380 |
| agcgcaaaca | caaaggacaa | caacctgtc | ggcgagttca | cgctatatgg | catccccccg | 1440 |
| gcaccaaga | gagtgccatc | tatcgatgtc | actttcgaca | ttgatgccaa | cggggtcttg | 1500 |
| aacgtttctg | ccgagcacia | ggtcaccgga | cagaagaaca | gcatacccat | cactaaccgc | 1560 |
| agcggacggc | tgaaccagga | ggaaatcgat | cgcattggctc | tggagcccga | gaggcacaag | 1620 |
| atgaagcgga | tcaagcttca | cgaagtagtc | taa | | | 1653 |

<210> 46

<211> 1437

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-109-35 coding sequence

<400> 46

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| atgtcgtcgt | cggcgacggg | ggtgccgctg | gcgtaccagg | ggaacacgtc | ggcgtcgggtg | 60 |
| gcggactggc | tgaacaagg | ggacaacgcg | tggcagctgg | tggcggcgac | gctgggtggg | 120 |
| ctgcagagcg | tgccgggctt | ggtggtgctg | tacggcgggc | tgggtgaagaa | gaagtggg | 180 |
| gtgaactcgg | cgttcattgg | gctctacgcc | ttcgccggcg | tgtggatctg | ctgggtcacc | 240 |
| tgggcgtaca | acatgtcgtt | cggggagaag | ctcctcccga | tctgggggaa | ggcgcggccg | 300 |
| gcgctggacc | agggcctcct | cgtcggccgc | gccgcgctgc | cggcgacggg | ccactaccgc | 360 |
| gccgacggca | gcgtggagac | ggcggcggtg | gagccgctgt | acccgatggc | gacgggtggtg | 420 |
| tacttccagt | gcgtgttcgc | cgccatcacc | ctcatcctcg | tcgccggctc | cctcctcggc | 480 |
| cgcatgagct | tcctcgcctg | gatgatcttc | gtcccgtctt | ggctcacctt | ctcctacacc | 540 |
| gtcggcgctt | tctcctctg | ggcggcgggc | ttcctcttcc | actggggcgt | catcgactac | 600 |
| tgccggcggt | acgtcatcca | cgtctccgcc | ggcatcgccg | gcttcaccgc | cgcttactgg | 660 |
| gtggggccaa | gggcgcagaa | ggacagggag | aggttcccgc | cgaacaatat | actgttcacg | 720 |
| ctgacggggg | cagggctgct | gtggatggg | tgggcagggt | tcaacggcgg | cggtccgtac | 780 |
| gccccaact | ccgtcgcttc | tatggccgtc | ctcaacacca | acatctgcac | cgccatgagc | 840 |
| ctcatcgtct | ggacatgcct | cgacgtcatc | ttcttcaaga | agccctccgt | cgtcggcgcc | 900 |
| gtccagggca | tgatcaccgg | cctcgtttgc | atcacccccc | ctgcagtggg | gcaggggtgg | 960 |
| gcggcgctgg | tgatgggggt | gctcggccgc | agcatcccgt | ggtacaccat | gatgatcctc | 1020 |
| cacaagcgct | ccaagatcct | gcagcgcgtc | gcagacacc | tcggcgtctt | ccacaccacc | 1080 |
| ggcgtcggcg | gcctcctcgg | cggcctcttc | accgcccctc | tcgccgagcc | caccctctgc | 1140 |
| aacctcttcc | tccccgtcgc | cgactcccgg | ggcgccttct | acggcggcgc | cggcggcgcc | 1200 |

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| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| cagttcggca | agcagatcgc | cggcggcctc | ttcgtcgtcg | cctggaacgt | cgtcgtcacc | 1260 |
| tcctcatct | gcctcgccat | caacctcctc | gtcccgtcc | gcatgcccga | cgacaagctc | 1320 |
| gaggtcggcg | acgacgccgt | ccacggcgag | gaggcctacg | cgctctgggg | cgacggcgag | 1380 |
| atgtacgacg | tcaccaagca | cggctccgac | gccgcccgtg | ccccgctcgt | cgtatga | 1437 |

<210> 47

<211> 6534

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-109-51 coding sequence

<400> 47

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| atggcgaacc | tgggcggcgg | cgccgaggcg | cacgcgcgct | tcaagcagta | cgagtaccgc | 60 |
| gccaaactcca | gcctcgtcct | caccaccgac | tcgcgcccc | gcgacacca | cgagcccacc | 120 |
| ggcgagcccc | agacgctctg | gggcaggatc | gaccccagga | gcttcggcga | ccgcgccgtc | 180 |
| caggccaagc | cccccgagct | cgaggagaag | ctcaccaagt | cccgaagaa | gaaggccgcc | 240 |
| gcctctgacc | ccgacgacct | ccaccgccgc | gacgccaagc | gcaggcgccg | cgccgcagcc | 300 |
| gccccagatg | aggtcagcgt | cctctcgctc | accgacgacg | tcgtctacaa | gccccagacc | 360 |
| aaggagacgc | gcgcccgccta | cgaggccctg | ctcagcgtca | tccagcaaca | gttcggcgga | 420 |
| cagccgctcg | acgtcctcgg | cggcgctgcc | gacgaggtgc | tcgccgtcct | caagaatgac | 480 |
| aagatcaaga | gccctgacaa | gaagaaggag | atcgagaagc | tcctcaacct | tatctccaac | 540 |
| cagatgttcg | accagatcgt | ctccataggg | aagctcatca | cggatttcca | tgatgcctcg | 600 |
| gctggtgatt | cagctgctgc | gccatctggt | gatggcatgg | acacagcgct | ggatgatgac | 660 |
| atcggcggtt | ctgttgatt | tgaagagaac | gaagatgacg | aggagagcga | tttcgatcag | 720 |
| gtgcaagatg | atttgatga | agatgaagat | gatgacttgc | ctgagtcgaa | tgcccctggt | 780 |
| gctatgcaaa | tgggtggcga | gttagatgat | gatgatatgc | agaactcaa | tgaggggctg | 840 |
| accataaatg | tacaagacat | tgatgcttac | tggcttcaga | ggaaggctct | gcaagcatac | 900 |
| gaagatattg | atccgcagca | cagtcagaag | cttgctgagg | agatcttgaa | gataattgct | 960 |
| gagggtagtg | acagagatgt | cgagaatcgg | cttgctatgc | tgttggacta | tgaaaagtgt | 1020 |
| gatctcatta | aactgctact | acgcaaccga | ctcaagattg | tttggtgtac | ccgttttagcg | 1080 |
| agggctgaag | atcaggaaca | gcggaagaag | attgaggaag | atatgatggg | taaccact | 1140 |
| ttaactccga | tattggagca | gctacatgca | acgagggcat | ctgcaaagga | gaggcagaag | 1200 |
| aatctagaga | aaagtatcag | ggatgaggcc | aagaggctta | ctaaaagcga | aaacactggc | 1260 |
| attgatggtg | cgagggatcg | tagggcagtt | gaccgggata | tgagagtggt | atgggtgaaa | 1320 |
| ggccagaggg | agctgcttga | tcctgacagc | ctgtccttcc | accaagggtg | tctcttgatg | 1380 |
| gccaaacaaga | aatgtgagct | tcctccagga | tcattcagaa | cccctcataa | ggggtagtag | 1440 |
| gaagtccatg | tgccggcgct | aaaagctaag | ccatatgaaa | ctggagagaa | gattgtcaag | 1500 |
| atatctgata | tgccagagtg | ggctcaacca | gcttttgcta | agatgacaca | gctgaacagg | 1560 |
| gttcagagca | aggtttatga | gactgccctt | ttcaaaccag | ataatattct | cctctgtgct | 1620 |
| ccaacaggtg | ctgggaaaac | caatgtggct | gtgtcacaaa | tccttcagca | gattgggttg | 1680 |
| catatgaagg | atggagtgtt | tgacaatacc | aagtacaaaa | ttgtctatgt | ggccccaatg | 1740 |
| aaagctttgg | ttgccgaagt | tgttggaaat | ttgtcggctc | ggctgagtg | gtatggtatt | 1800 |
| actgtaagag | agctcagtg | agaccagaac | ctgacaaaac | agcagattga | tgaaacacag | 1860 |
| ataattgtca | ccacacctga | gaaatgggac | attgtcacaa | gaaaatcagg | tgacagaacc | 1920 |
| tatactcaaa | tggtaaagct | tctaattcatt | gatgagatcc | atctacttca | tgacaacaga | 1980 |
| gggcctgttc | tggagagcat | tgtttctaga | actgtccggc | agattgagac | gaccaaagaa | 2040 |
| catatccgtc | tagttggtct | ctcagcaact | cttcggaact | atgaagatgt | cgcggttttc | 2100 |
| ctgcgtgttc | gctctgatgg | cctcttccat | ttcgataaca | gctacagacc | ttgccccctt | 2160 |
| gctcagcaat | acattgggat | caatgtgagg | aagccactac | agaggtttca | gctgatgaat | 2220 |
| gagatttgct | acgagaagg | tatggcatct | gctggaaagc | atcaagtgtc | tatattcgtg | 2280 |
| cactcgagga | aggagacagc | gaaaactgcc | cgtgccatcc | gagatactgc | attggcta | 2340 |
| gacacgttaa | accgcttctt | gaaggatgat | agtgcgaagc | aagagattct | tgaggatcag | 2400 |
| gcagaactag | taaaaagcag | tgaccttaaa | gaccttttgc | cttatgggtt | tgctattcat | 2460 |
| catgctgggt | tggcaaggg | agaccgtgag | ctttagagag | aactttttgc | cgataagcat | 2520 |
| atacagggtc | ttgtctcaac | agccaccctt | gcatgggggt | tcaatttgcc | tgacacact | 2580 |
| gttataataa | agggtagcca | gatttacaat | cctgaaaagg | gtgcgtggac | agagctgagt | 2640 |
| cctctagatg | tcatgcagat | gcttgccgtg | gctggcaggc | cacagtatga | tacacatgga | 2700 |
| gagggaaata | tcctaactgg | ccacagtga | ttgtaattat | acctgtctct | aatgaatcaa | 2760 |
| caactgccta | ttgagagtca | gttcataatc | agattggctg | atcaattaaa | tgacagagatt | 2820 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gttcttggga | ctattcagaa | tgctcgggag | gcatgctcat | ggcttggcta | cacctacctc | 2880 |
| tacatccgga | tgctccggaa | tccaacattg | tatggctctac | cggcagatat | catggagact | 2940 |
| gataaaacac | tagatgaaag | gagagctgac | ttgggtgcact | ctgctgcaaa | tctactcgat | 3000 |
| aggaacaatt | tgataaaagta | tgacaggaaa | acaggataact | tccaggttac | tgacctagga | 3060 |
| aggattgcta | gttattacta | tattagccac | gggactatnt | caacttaca | tgagtacctg | 3120 |
| aagcctacaa | tgggtgatat | tgagctatgt | cggctctttt | cactcagtga | agaattcaag | 3180 |
| tatgtcagtg | ttagacaaga | tgagaaaatg | gagctggcta | agcttttgga | tcgtgtgcct | 3240 |
| attcctgtga | aagaaagctt | ggaggagccc | agtgcaaaga | tcaatgttct | gctgcaagca | 3300 |
| tatatttcta | ggctgaaatt | ggagggtcct | tcgcttagct | ccgatatggt | ctacatcaga | 3360 |
| cagagtgcctg | gccgtctctt | acgagcgttg | tttgagatag | ttctgaagag | aggatgggcc | 3420 |
| caactagcag | agaaggcttt | gaatctttgt | aagatgatag | ataagcagat | gtggaatgtc | 3480 |
| caaactcccc | tgctgcaatt | ccctggtatt | ccgaaggaaa | tcctaataaa | actggagaaa | 3540 |
| aaagaatttg | cttggggagag | gtactacgac | ctatcatctc | aggaaatttg | tgaactaatt | 3600 |
| cggttcccgga | agatgggcag | gcaactgcac | aagtgcattc | accagttacc | aaagttgaat | 3660 |
| ctttcagcccc | atgttcagcc | aattactcgt | acggttttgg | gttttgagtt | gactataact | 3720 |
| cctgattttcc | aatgggagta | taaggtagat | ggatattgtg | agcctttctg | ggttattgtt | 3780 |
| gaggacaacg | atggcgagaa | cattcttcac | catgagtact | tcattggtta | gaaacaatac | 3840 |
| gtagatgaag | atcatacact | caacttcaca | gtgccaatat | acgagccact | gccccctcaa | 3900 |
| tacttttattc | gtgtttgatc | tgataagtgg | cttgggttctc | agacaattct | tcctgtctgt | 3960 |
| tttaggcact | taattcttcc | agaaaaatat | gctccgccaa | ctgaattgct | tgatctgcag | 4020 |
| ccactgcctg | ttactgcatt | gagaaatgca | cgatacgaag | gcctttatag | tgccctcaaa | 4080 |
| catttcaacc | caatccagac | tcaagtgttc | actgttctgt | acaacactga | tgacagtgtt | 4140 |
| ttggttgctg | cgccaacagg | cagtggaaag | accatctgtg | cagagtttgc | tatactaaga | 4200 |
| aaccatcaga | aggctgtatc | tggtgagagc | aacatgcgag | ttgtgtatat | tgctcctatt | 4260 |
| gaagcccttg | caaaagaaa | gtacagggat | tgggagcaga | aatttgagga | atttgctcgg | 4320 |
| gtagttgagc | taacaggtga | aactgcagct | gacttgaagc | ttctggataa | aggggagatt | 4380 |
| ataattagta | ctcctgagaa | gtgggatgca | ctctctcgcc | ggtggaaaca | gcggaaacaa | 4440 |
| gtccaacagg | tcagcctatt | cattgttgat | gagcttcac | tgattggatc | tgaaaaggga | 4500 |
| catgttctgg | aagtcattcgt | ctctaggatg | aggcgtattg | caagtcatat | tggcagtaac | 4560 |
| atccggattg | tggctctttc | agcgtcactt | gcaaagtcta | aagatctcgg | agaatggatt | 4620 |
| ggtgctacct | ctcatggcct | tttcaacttt | cctccagctg | tccggccggt | gccattagaa | 4680 |
| atacacattc | agggtgtgga | tatagcaaat | tttgaggcaa | ggatgcaggc | aatgacgaag | 4740 |
| ccgacataca | ctgctattac | ccaacatgca | agaatggta | aacctgccct | ggtgtttgtg | 4800 |
| cctacacgga | agcatgcaag | gttgactgca | ttggacttgt | gtgcgtactc | gagtgtctgag | 4860 |
| ggtggcgga | cacctttcct | tcttggttca | gaagatgaga | tggatgcttt | cactgggtgg | 4920 |
| atcagtgatg | aaacacttaa | atatactctg | aaatgtgtgt | taggctactt | gcatgaaggt | 4980 |
| ttaagtgtac | tggaaacagga | agttgttaact | cagctgtttc | tcagtgggag | gatccaagtg | 5040 |
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| ctactccaaa | tgatgggtca | tgctagcagg | cctcttcaag | ataactcagg | gaaatgtgtt | 5220 |
| atattgtgtc | atgcgcctcg | caaggaatac | tacaagaagt | tcctttttga | ggccttcctt | 5280 |
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| gtcatagaaa | acaagcaaga | tgctgtggat | taccttactt | ggaccttcat | gtacaggcgg | 5400 |
| ctgaccaaga | accctaacta | ctacaactctg | caggtgtgta | gccacaggca | tttgtcggac | 5460 |
| cattttatctg | agttgggtga | gactgtattg | aatgacctag | aatcaagcaa | gtgtgtggct | 5520 |
| atagaggagg | atatgtacct | gaagccccctc | aaccttggtc | tgattgcttc | gtactactac | 5580 |
| attagctaca | caactattga | gaggttcagt | tcaatgctaa | ctcaaaaagac | taagatgaaa | 5640 |
| gggctcctgg | agattctagc | ctctgcttca | gaatatgctg | agcttcccag | tcgccctggt | 5700 |
| gaggaggatt | tcattgagaa | gcttggttcgc | caccagagat | tttccatcga | gaagcccagg | 5760 |
| tatggtgatc | cacatgtcaa | ggctaacgca | ctgctgcaag | ctcatttttc | aaggcacact | 5820 |
| atcttagggga | acctggcagc | cgaccagcgg | gagatactcc | tttctgctca | tagattgctc | 5880 |
| caggcaatgg | ttgatgttat | ctccagcaat | ggatggctta | cgcttgctct | taatgcaatg | 5940 |
| gagctgagtc | aaatggtgac | acaaggcatg | tgggatcgctg | attctgttct | tttacaactt | 6000 |
| ccacatttca | ccaaggagtt | ggcacggaga | tgtcaggaga | atgaaggag | gcccattgag | 6060 |
| agcatctttg | atctggctga | gatgagcatc | gatgagatgc | gggatctgtt | gcagcaatca | 6120 |
| aaccttcagc | tcgagatat | cattgaattc | ttcaagcggt | tccccaatgt | cgatatggct | 6180 |
| tacgaagtgc | gcgaggggtga | tgatatcagg | gctggtgaca | atgtaactgt | acagggtgacc | 6240 |
| ctggagcgtg | acatgacgaa | cttgcccttct | gaggtggggc | cagttcatgc | ccccaggtag | 6300 |
| ccaaagccca | aggaagaagg | ctggtggctg | gtaattgggtg | atagctctac | caatcagttg | 6360 |
| cttgcaatca | agaggggttg | acttcagaag | agggtcagag | tgaagcttga | gttcaccgct | 6420 |
| gcttcagaag | ctgggagaaa | ggagtacatg | atctacctga | tgtccgattc | ttatctgggc | 6480 |
| tgcatcagg | agtacgagtt | caccgtcgat | gtcatggatg | ctggagggga | ttga | 6534 |

<210> 48
 <211> 543
 <212> DNA
 <213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1C-056-07 coding sequence

<400> 48
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 tacaaatttg acattaacac agtggtactac atggcaccct ttgccaccat gatactggct 120
 ctaccagcag tggtacttga aggaggcggg gtggttacct ggttctacac acatgactcc 180
 attgcttctg cactagtatt catcataggg tctggagtg cctaaacttc 240
 tccattttct acgtgatcca ttcaaccact gcagtgacct tcaatgttgc tggcaacctg 300
 aaagttgctg ttgctgtatt ggtgtcatgg ttgatcttcc ggaaccctat ctctcctatg 360
 aatgcaatcg gatgcgcgat cacgctcggt ggctgtactt tttatgggta tgtgaggcat 420
 ttgatctctc aacagcaggc tgtagctcca ggaacaggaa gcccaacaac atcgcaaca 480
 aattcgccga gaagtcggat ggagatgctc ccccttgtag gcgacaagca agaaaaggtt 540
 taa 543

<210> 49
 <211> 2436
 <212> DNA
 <213> Oryza sativa

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> line 1C-100-32 coding sequence

<400> 49
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 gtcgctgagg agaagcgcaa gagggaggac gatgcatcct cctccgctgt acttgccgcc 120
 gccacaaca ccggcggtgc ccagcaccac atgtggaaga ccagcctctg ctcttcttcc 180
 cgccgccgcg ccgcctcctc cgccgacggc tgcagccacg gcgactcctg ccgctacgcg 240
 cactccgagg aggagctccg cccgcgcccc gaggtggagg aagaggtggg caccattgac 300
 gccaaagcgt tccgcaaggc cgccgccgac gaggtggagg aagaggtggg caccattgac 360
 gacaaggccc tggacaagtg cctcgtcggc ctcccagggg gatgggcaa cgacaggctc 420
 aagactttcc tccaagacaa ggcaagaact aactactcct ccattcttcc tcctgctcta 480
 ctactaggaa tctcgtatgc aacagcgaag aagaagaagg gaatgactgt tggttttgta 540
 acttttgaaa atattgaaca gctgaagaat gctatcgagg tacttacaga gaaccaatct 600
 ggtggaaagg aaataaagat agcagatgcc aatcgtatag ctcatcaaaa gctgcacaca 660
 gaaaagcctg tatctgacaa tggagtgaac acagaaaatg gtactagtgt tgatgttcct 720
 cctggggaga catctgcacc tgaagcagca atatcaata aaaaaagtgt ccgcatgca 780
 gttactcccc ttgccacat gtcttataat gatcagctag agcacaaaaa taattctgtt 840
 gcgcagatac tgaagaggct tactcgcaat gctaggaaaag cttgccctac tggcattccc 900
 cttccagatt gggtttttaa atccaaagaa atttttcatt tattccattt ttcctcttta 960
 gtttgctcat attatatttt aaatcatgca ggtggtcttc cttgcaagct tgaaggcatt 1020
 ctggagtccc cagtgattaa tggataccgt aacaagtgtg aattctctgt gggattttct 1080
 ttggagggaa aaaagacggg tggatttatg cttggaaatt ttactgatat gattgacaaa 1140
 acaaaatcca ggggaagggt gactgctgtt gaggaacctg tggactgccc aaatgtctca 1200
 gaaatttctt gcaaatatgc tctgatgttc caagactttc tgcagtcac aagcttgcc 1260
 gtgtggaaca gagttaataa ttgtggattt tggcgtcaat tcacagtctg ggagggaga 1320
 tgtcgagctc aagctgttgc acagaatgca gaaacccaaa tatcagaagt catgcttatt 1380
 gttcagggtt gctccacagg tgttgatgat gcagtaatga aagatgaatt tgacaagttg 1440
 accgttgcgc tgcaacaagg agcagcaaca tgctcacctc cattacctct aacaactata 1500
 gtagtgcaag atcacaaagg aatttcaaat gctgcaccag ctgattgtcc attgatccca 1560
 ctattggtgc caaaagtaga tcaatcagaa ggtacagtgg ataaaaaag aatccatgac 1620
 cacatcggtg atctgtgggt ctccatatca ccaacagcat tttttcagg caatactctc 1680
 gctgcagaaa gattgtatgc ccttgctggt gattgggcca acctcaattc gggcacatta 1740
 cttttgacg tatgttgtgg aacaggaaca attggactga cttggcaca ccgtgttgg 1800

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atggttgttg gaatcgaaat gaatgaatca gcagtttctg atgctgagag aaatgcgctc 1860
attaacggtg tatcaaattg tcgctttgtc tgtgggaagg ccgaagatgt gatggggctc 1920
cttctcactg aatatcttgg ttcaccgcag caggacattc ctgtttctga aggtgcagta 1980
agtggtagtg tgaaagatga ggaagttatt gacagttcta agaatagtgg cgaaaatttg 2040
gacagctcaa tgcagaaaaa tgacaatggc aaaagccagc agctcgggga tgcaccagct 2100
gattcttcct cttctgccat agatgagata aaggggaatt ccaatgatag ggttggcaat 2160
gggttggaa ggcagccatga tgaatacaat gaggttgctg gagaagatat tcatggggaa 2220
gcatcattga tcaatgagtc tgttgacctg aaagtatcgg actgtttgga ggacagaaag 2280
acatctgatg atggttcttc catttctaac aatgatgtga ctgcagctac tgcattgtcag 2340
ttcgaagaca ttgttgctat tgtggatcct cctcgtgttg ggcttcaccc tactgtaaac 2400
cccaaaagag gacagggagt tcctgttttc atttaa 2436

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<210> 50

<211> 429

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-142-27 coding sequence

<400> 50

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atggcaatgg cttacaagat ggcgacggag gggatgaacg tgaaggagga gtgccagagg 60
tggttcatgg agatgaagtg gaagaagggtg caccgggttcg tgggtgtacaa gatcgacgag 120
cggctcgcgcg ccgtgctggt ggacaagggtg ggcggccccc gcgaagggtg cgaggagctc 180
gtcgccgcgcg tgcccaccga cgactgccgc tacgccgtct tcgacttcga cttcgtcacc 240
gtcgacaact gccagaagag caagatcttc ttcattcgctt caccgaccgc atcgaggata 300
agagccaaga ttctgtacgc gacgtcgaag caagggctga ggcgggtgct tgacgggggtc 360
cactacgagg tgcaagccac ggactcctcc gagatgggct acgacgtcat ccgaggccgc 420
gctcagtga 429

```

<210> 51

<211> 1344

<212> DNA

<213> Oryza sativa

<220>

<221> misc_feature

<222> (0)...(0)

<223> line 1C-140-04 coding sequence

<400> 51

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atggcgaccg gagagctcgc tctcgtgtcc tcgctgttca tcgtcgtcgt gttcctcttg 60
cttgggtcgt tggcgagaga ggcttctgcy ctcacccggc atgacttccc cgagggtctc 120
gtcttcggcg caggctcctc cgctttccag gtggaagggg cagctgcaga ggatgggagg 180
aagcccagca tttgggacac cttcatccat caatacatgc ctgacggctc caatgcagat 240
gtctcagcag atcagtatca ccattacaag gaggatgtaa agcttatgta tgacatgggg 300
ctggatgcgt acagattttc cattgcttgg cctcgtctta ttccgggaag aggagagatc 360
aaccccaagg gcttgagta ctacaacaat ctgatagacg aattgataat gcatatacaa 420
cctcatgtca ccatctacca ttttgatctc cctcaggccc ttcaggatga gtatgggtgga 480
atactcagcc ccagattcga agattactcg gcttatgccg aggtgtgctt caagaacttc 540
ggtgacaggg tgaagcactg ggccaccttt aaccagccga acatcgagcc catcggcggc 600
ttcgacgccc gcgaccggcc gccgcggcgg tgctcctacc cttcggcac caactgcacc 660
ggcggcgact cctcgacgga gccgtacatc gtggctcacc acctgctgct cgctcatgcc 720
tcggcagtgt ccatctacag acagaaatac cagcaggcaa ttcaaggagg ccagataggg 780
atcactctca tggttcgggtg gcatgagcca tacaccgaca aaacagccga tgcagctgct 840
gccattagga tgaatgaatt ccatattgga tttttgcatc ctttgggtgca cggagactac 900
cctccggtga tgaggagtgc cgtgggcgggt cggttgccat ccataacggc gtcagattca 960
gagaaaatac gcggatcgtt cgacttcatc ggcattcaacc attactacgt tatctttgtg 1020
caatccatcg acgcgaatga gcagaaacta cgggactact acatcgacgc aggtgttcaa 1080
gaagacgaca aggagaacat tcagtgtctc ttggcaagggt gctgaatcac 1140
ctgaaactcg agtatggcaa cccccgggtc atgatccacg aaatggtagt tattcagatt 1200

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caccggatat cttcggaaag atcaactaca acgatgactt cagatcggag ttcttgcagg 1260
gctacctgga agctctgtat ttgtccgtac ggtgcgctca ctctccttgc tacttacttc 1320
ctttgtgctg gtaaaggaag ttga 1344

<210> 52
<211> 223
<212> PRT
<213> Oryza sativa

<220>
<221> PEPTIDE
<222> (0)...(0)
<223> line 1B-115-22 polypeptide sequence

<400> 52
Met Ala Lys Leu Ile Leu Ala Thr Phe Ala Val Val Phe Met Ala Leu
1 5 10 15
Ala Ala Thr Ser Leu Ala Gly Asp Pro Asp Met Leu Gln Asp Val Cys
20 25 30
Val Ala Asp Tyr Lys Ser Leu Lys Gly Pro Leu Arg Leu Asn Gly Phe
35 40 45
Pro Cys Lys Arg Ile Glu Asn Val Thr Ala Asn Asp Phe Phe Phe Asp
50 55 60
Gly Leu Met Lys Ala Gly Asn Thr Gly Asn Ala Val Gly Ser Val Val
65 70 75 80
Thr Ala Ala Ser Val Glu Ser Leu Pro Gly Leu Asn Thr Met Gly Val
85 90 95
Ser Met Ala Arg Ile Asp Tyr Ala Pro Trp Gly Leu Asn Pro Pro His
100 105 110
Thr His Pro Arg Ala Thr Glu Ile Ile Phe Val Val Glu Gly Ser Leu
115 120 125
Asp Val Gly Phe Val Thr Thr Ala Asn Lys Leu Phe Thr Arg Thr Val
130 135 140
Cys Lys Gly Glu Val Phe Val Phe Pro Arg Gly Leu Val His Phe Gln
145 150 155 160
Lys Asn Asn Gly Asn Thr Pro Ala Phe Ala Ile Ala Ala Leu Asn Ser
165 170 175
Gln Leu Pro Gly Thr Gln Ser Ile Ala Ala Ala Leu Phe Gly Ala Ala
180 185 190
Pro Pro Leu Pro Ser Asp Thr Leu Ala Arg Ala Phe Gln Val Asp Gly
195 200 205
Gly Met Val Glu Phe Ile Lys Ser Lys Phe Val Pro Pro Lys Tyr
210 215 220

<210> 53
<211> 332
<212> PRT
<213> Oryza sativa

<220>
<221> PEPTIDE
<222> (0)...(0)
<223> line 1B-164-43 polypeptide sequence

<400> 53
Met Ser Ser Arg Met Ala Gly Ser Ala Ile Leu Arg His Val Gly Gly
1 5 10 15
Val Arg Leu Phe Thr Ala Ser Ala Thr Ser Pro Ala Ala Ala Ala Ala
20 25 30
Ala Ala Ala Arg Pro Phe Leu Ala Gly Gly Glu Ala Val Pro Gly Val
35 40 45
Trp Gly Leu Arg Leu Met Ser Thr Ser Ser Val Ala Ser Thr Glu Ala
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50 55 60
 Ala Ala Lys Ala Glu Ala Lys Lys Ala Asp Ala Glu Lys Glu Val Val
 65 70 75 80
 Val Asn Ser Tyr Trp Gly Ile Glu Gln Ser Lys Lys Leu Val Arg Glu
 85 90 95
 Asp Gly Thr Glu Trp Lys Trp Ser Cys Phe Arg Pro Trp Glu Thr Tyr
 100 105 110
 Thr Ala Asp Thr Ser Ile Asp Leu Thr Lys His His Val Pro Lys Thr
 115 120 125
 Leu Leu Asp Lys Ile Ala Tyr Trp Thr Val Lys Ser Leu Arg Phe Pro
 130 135 140
 Thr Asp Ile Phe Phe Gln Arg Arg Tyr Gly Cys Arg Ala Met Met Leu
 145 150 155 160
 Glu Thr Val Ala Ala Val Pro Gly Met Val Gly Gly Met Leu Leu His
 165 170 175
 Leu Arg Ser Leu Arg Arg Phe Glu Gln Ser Gly Gly Trp Ile Arg Thr
 180 185 190
 Leu Leu Glu Glu Ala Glu Asn Glu Arg Met His Leu Met Thr Phe Met
 195 200 205
 Glu Val Ala Asn Pro Lys Trp Tyr Glu Arg Ala Leu Val Ile Thr Val
 210 215 220
 Gln Gly Val Phe Phe Asn Ala Tyr Phe Leu Gly Tyr Leu Leu Ser Pro
 225 230 235 240
 Lys Phe Ala His Arg Val Val Gly Tyr Leu Glu Glu Glu Ala Ile His
 245 250 255
 Ser Tyr Thr Glu Phe Leu Lys Asp Leu Glu Ala Gly Lys Ile Asp Asn
 260 265 270
 Val Pro Ala Pro Ala Ile Ala Ile Asp Tyr Trp Arg Leu Pro Ala Asn
 275 280 285
 Ala Thr Leu Lys Asp Val Val Thr Val Val Arg Ala Asp Glu Ala His
 290 295 300
 His Arg Asp Val Asn His Phe Ala Ser Asp Ile His Tyr Gln Gly Met
 305 310 315 320
 Glu Leu Lys Gln Thr Pro Ala Pro Ile Gly Tyr His
 325 330

<210> 54

<211> 1073

<212> PRT

<213> Oryza sativa

<220>

<221> PEPTIDE

<222> (0)...(0)

<223> line 1B-192-40 polypeptide sequence

<400> 54

Met Val Cys Ala Ala Ile His Ile Ala Val Val Ala Met Leu Val Ser
 1 5 10 15
 Leu Thr Ala Leu Ala Ile Ala Asp Glu Ser Asp Asn Asn Gln Arg Glu
 20 25 30
 Ala Leu Leu Cys Ile Lys Ser His Leu Ser Ser Pro Glu Gly Gly Ala
 35 40 45
 Leu Thr Thr Trp Asn Asn Thr Ser Leu Asp Met Cys Thr Trp Arg Gly
 50 55 60
 Val Thr Cys Ser Ser Glu Leu Pro Lys Pro Arg Leu Val Val Ala Leu
 65 70 75 80
 Asp Met Glu Ala Gln Gly Leu Ser Gly Glu Ile Pro Pro Cys Ile Ser
 85 90 95
 Asn Leu Ser Ser Leu Thr Arg Ile His Leu Pro Asn Asn Gly Leu Ser
 100 105 110
 Gly Gly Leu Ala Ser Ala Ala Asp Val Ala Gly Leu Arg Tyr Leu Asn

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| | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Leu 130 | Ser 130 | Phe 115 | Asn | Ala | Ile | Gly 135 | Gly 120 | Ala | Ile | Pro | Lys 140 | Arg 125 | Leu | Gly | Thr |
| Leu 145 | Arg | Asn | Leu | Ser | Ser 150 | Leu | Asp | Leu | Thr | Asn 155 | Asn | Asn | Ile | His | Gly 160 |
| Glu | Ile | Pro | Pro | Leu 165 | Leu | Gly | Ser | Ser | Ser 170 | Ala | Leu | Glu | Ser | Val 175 | Gly |
| Leu | Ala | Asp | Asn 180 | Tyr | Leu | Thr | Gly | Gly 185 | Ile | Pro | Leu | Phe | Leu 190 | Ala | Asn |
| Ala | Ser | Ser 195 | Leu | Arg | Tyr | Leu | Ser 200 | Leu | Lys | Asn | Asn | Ser 205 | Leu | Tyr | Gly |
| Ser | Ile 210 | Pro | Ala | Ala | Leu | Phe 215 | Asn | Ser | Ser | Thr | Ile 220 | Arg | Glu | Ile | Tyr |
| Leu 225 | Gly | Glu | Asn | Asn | Leu 230 | Ser | Gly | Ala | Ile | Pro 235 | Pro | Val | Thr | Ile | Phe 240 |
| Pro | Ser | Gln | Ile | Thr 245 | Asn | Leu | Asp | Leu | Thr 250 | Thr | Asn | Ser | Leu | Thr 255 | Gly |
| Gly | Ile | Pro | Pro 260 | Ser | Leu | Gly | Asn | Leu 265 | Ser | Ser | Leu | Thr | Ala 270 | Leu | Leu |
| Ala | Ala | Glu 275 | Asn | Gln | Leu | Gln | Gly 280 | Ser | Ile | Pro | Asp | Phe 285 | Ser | Lys | Leu |
| Ser | Ala 290 | Leu | Arg | Tyr | Leu | Asp 295 | Leu | Ser | Tyr | Asn | Asn 300 | Leu | Ser | Gly | Thr |
| Val 305 | Asn | Pro | Ser | Val | Tyr 310 | Asn | Met | Ser | Ser | Ile 315 | Thr | Phe | Leu | Gly | Leu 320 |
| Ala | Asn | Asn | Asn | Leu 325 | Glu | Gly | Ile | Met | Pro 330 | Pro | Gly | Ile | Gly | Asn 335 | Thr |
| Leu | Pro | Asn | Ile 340 | Gln | Val | Leu | Ile | Met 345 | Ser | Asp | Asn | His | Phe 350 | His | Gly |
| Glu | Ile | Pro 355 | Lys | Ser | Leu | Ala | Asn 360 | Ala | Ser | Asn | Met | Gln 365 | Phe | Leu | Tyr |
| Leu | Ala 370 | Asn | Asn | Ser | Leu | Arg 375 | Gly | Val | Ile | Pro | Ser 380 | Phe | Gly | Leu | Met |
| Thr 385 | Asp | Leu | Arg | Val | Val 390 | Met | Leu | Tyr | Ser | Asn 395 | Gln | Leu | Glu | Ala | Gly 400 |
| Asp | Trp | Ala | Phe | Leu 405 | Ser | Ser | Leu | Lys | Asn 410 | Cys | Ser | Asn | Leu | Gln 415 | Lys |
| Leu | His | Phe | Gly 420 | Glu | Asn | Asn | Leu | Arg 425 | Gly | Asp | Met | Pro | Ser 430 | Ser | Val |
| Ala | Glu | Leu 435 | Pro | Lys | Thr | Leu | Thr 440 | Ser | Leu | Ala | Leu | Pro 445 | Ser | Asn | Tyr |
| Ile | Ser 450 | Gly | Thr | Ile | Pro | Leu 455 | Glu | Ile | Gly | Asn | Leu 460 | Ser | Ser | Ile | Ser |
| Leu 465 | Leu | Tyr | Leu | Gly | Asn 470 | Asn | Leu | Leu | Thr | Gly 475 | Ser | Ile | Pro | His | Thr 480 |
| Leu | Gly | Gln | Leu | Asn 485 | Asn | Leu | Val | Val | Leu 490 | Ser | Leu | Ser | Gln | Asn 495 | Ile |
| Phe | Ser | Gly | Glu 500 | Ile | Pro | Gln | Ser | Ile 505 | Gly | Asn | Leu | Asn | Arg 510 | Leu | Thr |
| Glu | Leu | Tyr 515 | Leu | Ala | Glu | Asn | Gln 520 | Leu | Thr | Gly | Arg | Ile 525 | Pro | Ala | Thr |
| Leu | Ser 530 | Arg | Cys | Gln | Gln | Leu 535 | Leu | Ala | Leu | Asn | Leu 540 | Ser | Cys | Asn | Ala |
| Leu 545 | Thr | Gly | Ser | Ile | Ser 550 | Gly | Asp | Met | Phe | Ile 555 | Lys | Leu | Asn | Gln | Leu 560 |
| Ser | Trp | Leu | Leu | Asp 565 | Leu | Ser | His | Asn | Gln 570 | Phe | Ile | Asn | Ser | Ile 575 | Pro |
| Leu | Glu | Leu | Gly 580 | Ser | Leu | Ile | Asn | Leu 585 | Ala | Ser | Leu | Asn | Ile 590 | Ser | His |
| Asn | Lys | Leu 595 | Thr | Gly | Arg | Ile | Pro 600 | Ser | Thr | Leu | Gly | Ser 605 | Cys | Val | Arg |
| Leu | Glu 610 | Ser | Leu | Arg | Val | Gly 615 | Gly | Asn | Phe | Leu | Glu 620 | Gly | Ser | Ile | Pro |

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Gln Ser Leu Ala Asn Leu Arg Gly Thr Lys Val Leu Asp Phe Ser Gln
 625 630 635 640
 Asn Asn Leu Ser Gly Ala Ile Pro Asp Phe Gly Thr Phe Thr Ser
 645 650 655
 Leu Gln Tyr Leu Asn Met Ser Tyr Asn Asn Phe Glu Gly Pro Ile Pro
 660 665 670
 Val Asp Gly Ile Phe Ala Asp Arg Asn Lys Val Phe Val Gln Gly Asn
 675 680 685
 Pro His Leu Cys Thr Asn Val Pro Met Asp Glu Leu Thr Val Cys Ser
 690 695 700
 Ala Ser Ala Ser Lys Arg Lys Asn Lys Leu Ile Ile Pro Met Leu Ala
 705 710 715 720
 Ala Phe Ser Ser Ile Ile Leu Leu Ser Ser Ile Leu Gly Leu Tyr Phe
 725 730 735
 Leu Ile Val Asn Val Phe Leu Lys Arg Lys Trp Lys Ser Asn Glu His
 740 745 750
 Met Asp His Thr Tyr Met Glu Leu Lys Thr Leu Thr Tyr Ser Asp Val
 755 760 765
 Ser Lys Ala Thr Asn Asn Phe Ser Ala Ala Asn Ile Val Gly Ser Gly
 770 775 780
 His Phe Gly Thr Val Tyr Arg Gly Ile Leu His Thr Glu Asp Thr Met
 785 790 795 800
 Val Ala Val Lys Val Phe Lys Leu Asp Gln Cys Gly Ala Leu Asp Ser
 805 810 815
 Phe Met Ala Glu Cys Lys Ala Leu Lys Asn Ile Arg His Arg Asn Leu
 820 825 830
 Val Lys Val Ile Thr Ala Cys Ser Thr Tyr Asp Pro Met Gly Ser Glu
 835 840 845
 Phe Lys Ala Leu Val Phe Glu Tyr Met Ala Asn Gly Ser Leu Glu Ser
 850 855 860
 Arg Leu His Thr Lys Phe Asp Arg Cys Gly Asp Leu Ser Leu Gly Glu
 865 870 875 880
 Arg Ile Ser Ile Ala Phe Asp Ile Ala Ser Ala Leu Glu Tyr Leu His
 885 890 895
 Asn Gln Cys Ile Pro Pro Val Val His Cys Asp Leu Lys Pro Ser Asn
 900 905 910
 Val Leu Phe Asn Asn Asp Asp Val Ala Cys Val Cys Asp Phe Gly Leu
 915 920 925
 Ala Arg Ser Ile Arg Val Tyr Ser Ser Gly Thr Gln Ser Ile Ser Thr
 930 935 940
 Ser Met Ala Gly Pro Arg Gly Ser Ile Gly Tyr Ile Ala Pro Glu Tyr
 945 950 955 960
 Gly Met Gly Ser Gln Ile Ser Thr Glu Gly Asp Val Tyr Ser Tyr Gly
 965 970 975
 Ile Ile Leu Leu Glu Met Leu Thr Gly Arg His Pro Thr Asn Glu Ile
 980 985 990
 Phe Thr Asp Gly Leu Thr Leu Arg Met Tyr Val Asn Ala Ser Leu Ser
 995 1000 1005
 Gln Ile Lys Asp Ile Leu Asp Pro Arg Leu Ile Pro Glu Met Thr Glu
 1010 1015 1020
 Gln Pro Ser Asn His Thr Leu Gln Leu His Glu His Lys Lys Thr Val
 1025 1030 1035 1040
 Pro Ser Arg Cys Lys Leu Gly Gly Val Glu Gly Ile Leu Thr Cys Thr
 1045 1050 1055
 Ile Arg Glu Ile Ala Ser Lys Leu Gly Gly Leu Arg Leu Ser Met Leu
 1060 1065 1070
 Thr

<210> 55
 <211> 637
 <212> PRT

<213> Oryza sativa

<220>

<221> PEPTIDE

<222> (0)...(0)

<223> line 1B-207-27 polypeptide sequence

<400> 55

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Asp | His | Ile | Leu | Thr | Ala | Phe | Leu | Val | Val | Ser | Leu | Leu | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ala | Cys | Ile | Pro | Pro | Ala | Lys | Ser | Ala | Asp | Leu | Asn | Ser | Asp | Lys | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ala | Leu | Leu | Ala | Phe | Ala | Ala | Ser | Leu | Pro | His | Gly | Arg | Lys | Leu | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Trp | Ser | Ser | Ala | Ala | Pro | Val | Cys | Thr | Ser | Trp | Val | Gly | Val | Thr | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Thr | Pro | Asp | Asn | Ser | Arg | Val | Gln | Thr | Leu | Arg | Leu | Pro | Ala | Val | Gly |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Phe | Gly | Pro | Leu | Pro | Ser | Asp | Thr | Leu | Gly | Lys | Leu | Asp | Ala | Leu |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Glu | Val | Leu | Ser | Leu | Arg | Ser | Asn | Arg | Ile | Thr | Val | Asp | Leu | Pro | Pro |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Glu | Val | Gly | Ser | Ile | Pro | Ser | Leu | His | Ser | Leu | Tyr | Leu | Gln | His | Asn |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asn | Leu | Ser | Gly | Ile | Ile | Pro | Thr | Ser | Leu | Thr | Ser | Thr | Leu | Thr | Phe |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Asp | Leu | Ser | Tyr | Asn | Thr | Phe | Asp | Gly | Glu | Ile | Pro | Leu | Arg | Val |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Gln | Asn | Leu | Thr | Gln | Leu | Thr | Ala | Leu | Leu | Leu | Gln | Asn | Asn | Ser | Leu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Ser | Gly | Pro | Ile | Pro | Asp | Leu | Gln | Leu | Pro | Lys | Leu | Arg | His | Leu | Asn |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Leu | Ser | Asn | Asn | Asn | Leu | Ser | Gly | Pro | Ile | Pro | Pro | Ser | Leu | Gln | Arg |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Phe | Pro | Ala | Asn | Ser | Phe | Leu | Gly | Asn | Ala | Phe | Leu | Cys | Gly | Phe | Pro |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Gln | Pro | Cys | Pro | Gly | Thr | Ala | Pro | Ser | Pro | Ser | Pro | Ser | Pro | Thr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Ser | Pro | Ser | Pro | Gly | Lys | Ala | Lys | Lys | Gly | Phe | Trp | Lys | Arg | Ile | Arg |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Thr | Gly | Val | Ile | Ile | Ala | Leu | Ala | Ala | Ala | Gly | Gly | Val | Leu | Leu | Leu |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ile | Leu | Ile | Val | Leu | Leu | Leu | Ile | Cys | Ile | Phe | Lys | Arg | Lys | Lys | Ser |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Thr | Glu | Pro | Thr | Thr | Ala | Ser | Ser | Ser | Lys | Gly | Lys | Thr | Val | Ala | Gly |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Gly | Arg | Gly | Glu | Asn | Pro | Lys | Glu | Glu | Tyr | Ser | Ser | Gly | Val | Gln | Glu |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Ala | Glu | Arg | Asn | Lys | Leu | Val | Phe | Phe | Glu | Gly | Cys | Ser | Tyr | Asn | Phe |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Asp | Leu | Glu | Asp | Leu | Leu | Arg | Ala | Ser | Ala | Glu | Val | Leu | Gly | Lys | Gly |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Ser | Tyr | Gly | Thr | Thr | Tyr | Lys | Ala | Val | Leu | Glu | Asp | Gly | Thr | Thr | Val |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Val | Val | Lys | Arg | Leu | Lys | Glu | Val | Val | Val | Gly | Lys | Lys | Asp | Phe | Glu |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| Gln | Gln | Met | Glu | Ile | Val | Gly | Arg | Val | Gly | Gln | His | Gln | Asn | Val | Val |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Pro | Leu | Arg | Ala | Tyr | Tyr | Tyr | Ser | Lys | Asp | Glu | Lys | Leu | Leu | Val | Tyr |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Asp | Tyr | Ile | Pro | Ser | Gly | Ser | Leu | Ala | Val | Val | Leu | His | Gly | Asn | Lys |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Ala | Thr | Gly | Lys | Ala | Pro | Leu | Asp | Trp | Glu | Thr | Arg | Val | Lys | Ile | Ser |

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435 440 445
 Leu Gly Val Ala Arg Gly Ile Ala His Leu His Ala Glu Gly Gly Gly
 450 455 460
 Lys Phe Ile His Gly Asn Leu Lys Ser Ser Asn Ile Leu Leu Ser Gln
 465 470 475 480
 Asn Leu Asp Gly Cys Val Ser Glu Phe Gly Leu Ala Gln Leu Met Thr
 485 490 495
 Ile Pro Pro Ala Pro Ala Arg Leu Val Gly Tyr Arg Ala Pro Glu Val
 500 505 510
 Leu Glu Thr Lys Lys Pro Thr Gln Lys Ser Asp Val Tyr Ser Phe Gly
 515 520 525
 Val Leu Val Leu Glu Met Leu Thr Gly Lys Ala Pro Leu Arg Ser Pro
 530 535 540
 Gly Arg Glu Asp Ser Ile Glu His Leu Pro Arg Trp Val Gln Ser Val
 545 550 555 560
 Val Arg Glu Glu Trp Thr Ala Glu Val Phe Asp Val Asp Leu Leu Arg
 565 570 575
 His Pro Asn Ile Glu Asp Glu Met Val Gln Met Leu Gln Val Ala Met
 580 585 590
 Ala Cys Val Ala Ala Pro Pro Asp Gln Arg Pro Lys Met Asp Glu Val
 595 600 605
 Ile Arg Arg Ile Val Glu Ile Arg Asn Ser Tyr Ser Gly Ser Arg Thr
 610 615 620
 Pro Pro Glu Glu Lys Gln Lys Asp Glu Ser Ala Ala Pro
 625 630 635

<210> 56
 <211> 523
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1B-138-07 polypeptide sequence

<400> 56
 Met Ala Ala Pro Leu Ser Thr Ala Ala Ala Ala Ser Trp Leu Ser Asp
 1 5 10 15
 Ser Ala Ser Ser Pro Pro Arg Val Arg Leu Leu Ile Gly Gly Glu Phe
 20 25 30
 Val Glu Ser Arg Ala Asp Glu His Val Asp Val Thr Asn Pro Ala Thr
 35 40 45
 Gln Glu Val Val Ser Arg Ile Pro Leu Thr Thr Ala Asp Glu Phe Arg
 50 55 60
 Ala Ala Val Asp Ala Ala Arg Thr Ala Phe Pro Gly Trp Arg Asn Thr
 65 70 75 80
 Pro Val Thr Thr Arg Gln Arg Ile Met Leu Lys Tyr Gln Glu Leu Ile
 85 90 95
 Arg Ala Asn Met Asp Lys Leu Ala Glu Asn Ile Thr Thr Glu Gln Gly
 100 105 110
 Lys Thr Leu Lys Asp Ala Trp Gly Asp Val Phe Arg Gly Leu Glu Val
 115 120 125
 Val Glu His Ala Cys Gly Met Gly Thr Leu Gln Met Gly Glu Tyr Val
 130 135 140
 Ser Asn Val Ser Asn Gly Ile Asp Thr Phe Ser Ile Arg Glu Pro Leu
 145 150 155 160
 Gly Val Cys Ala Gly Ile Cys Pro Phe Asn Phe Pro Ala Met Ile Pro
 165 170 175
 Leu Trp Met Phe Pro Ile Ala Val Thr Cys Gly Asn Thr Phe Val Leu
 180 185 190
 Lys Pro Ser Glu Lys Asp Pro Gly Ala Ala Met Met Leu Ala Glu Leu

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 195 | | | | | 200 | | | | 205 | | | | |
| Ala | Met | Glu | Ala | Gly | Leu | Pro | Lys | Gly | Val | Leu | Asn | Ile | Val | His | Gly |
| Thr | 210 | Asp | Val | Val | Asn | Asn | Ile | Cys | Asp | Asp | Glu | Asp | Ile | Lys | Ala |
| 225 | His | Val | Val | Gly | 230 | Asn | Ile | Ala | Gly | 235 | Met | His | Ile | Tyr | 240 |
| Val | Ser | Phe | Val | 245 | Ser | Asn | Ile | Ala | 250 | Gln | Ser | Asn | Met | Gly | 255 |
| Ala | Ser | Ala | Lys | Gly | Lys | Arg | Val | Gln | 265 | Ser | Asn | Met | Gly | Ala | Lys |
| His | Ala | Ile | Ile | Leu | Pro | Asp | Ala | Asp | Arg | Asp | Ala | Thr | Leu | Asn | Ala |
| Leu | Ile | Ala | Ala | Gly | Phe | Gly | Ala | Ala | Gly | Gln | Arg | 300 | Cys | Met | Ala |
| Ser | Thr | Ala | Val | Phe | Val | Gly | Gly | Ser | Glu | Pro | Trp | Ile | Arg | Pro | Gly |
| 305 | Arg | Glu | Asp | Glu | Leu | Val | Lys | Arg | Ala | 315 | Ser | Ser | Leu | Val | 320 |
| Ile | Arg | Glu | Asp | Glu | Leu | Val | Lys | Arg | Ala | 330 | Ser | Ser | Leu | Val | 335 |
| Ser | Gly | Met | Ala | Ser | Asp | Ala | Asp | Leu | Gly | Pro | Val | Ile | Ser | Lys | Gln |
| Ala | Lys | Glu | Arg | Ile | Cys | Lys | Leu | Ile | Gln | Ser | Gly | Ala | Asp | Asn | Gly |
| Ala | Arg | Val | Leu | Leu | Asp | Gly | Arg | Asp | Ile | Val | Val | Pro | Asn | Phe | Glu |
| Asn | Gly | Asn | Phe | Val | Gly | Pro | Thr | Leu | Leu | Ala | Asp | Val | Lys | Ser | Glu |
| 385 | Met | Glu | Cys | Tyr | Lys | Glu | Glu | Ile | Phe | Gly | Pro | Val | Leu | Leu | Met |
| Met | Glu | Cys | Tyr | Lys | Glu | Glu | Ile | Phe | Gly | 410 | Pro | Val | Leu | Leu | 415 |
| Lys | Ala | Glu | Ser | Leu | Asp | Asp | Ala | Ile | Gln | Ile | Val | Asn | Arg | Asn | Lys |
| Tyr | Gly | Asn | Gly | Ala | Ser | Ile | Phe | Thr | Thr | Ser | Gly | Val | Ser | Ala | Arg |
| Lys | Phe | Gln | Thr | Asp | Ile | Glu | Ala | Gly | Gln | Val | Gly | Ile | Asn | Val | Pro |
| Ile | Pro | Val | Pro | Leu | Pro | Phe | Phe | Ser | Phe | Thr | Gly | Ser | Lys | Ala | Ser |
| 465 | Ala | Gly | Asp | Leu | Asn | Phe | Tyr | Gly | Lys | Ala | Gly | Val | Gln | Phe | Phe |
| Phe | Ala | Gly | Asp | Leu | Asn | Phe | Tyr | Gly | Lys | Ala | Gly | Val | Gln | Phe | Phe |
| Thr | Gln | Ile | Lys | Thr | Val | Thr | Gln | Gln | Trp | Lys | Glu | Ser | Pro | Ala | Gln |
| Arg | Val | Ser | Leu | Ser | Met | Pro | Thr | Ser | Gln | Lys | | | | | |

```
<210> 57
<211> 446
<212> PRT
<213> Oryza sativa
```

```
<220>  
<221> PEPTIDE  
<222> (0)...(0)  
<223> line 10-059-12 polypeptide sequence
```

<400> 57
Met Ala Ala Ala Ala Thr Ala Ala Val Pro Leu Asp Glu Ala Lys Ala
1 5 10
Lys Glu Val Leu Arg Gln Val Glu Phe Tyr Phe Ser Asp Ser Asn Leu
20 25 30
Pro Arg Asp Asn Phe Leu Arg Lys Thr Val Glu Glu Ser Glu Asp Gly
35 40 45
Leu Val Ser Leu Ala Leu Ile Cys Ser Phe Ser Arg Met Lys Lys His
50 55 60
Leu Gly Leu Asp Ala Asp Val Lys Gln Glu Thr Met Pro Glu Glu Thr

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| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65 | Val | Leu | Ala | Val | Ala | Glu | Val | Leu | Arg | Arg | Ser | Ser | Ala | Leu | Arg | Val |
| | | | | 85 | | | | | 90 | | | | | | 95 | |
| Thr | Glu | Asp | Gly | Lys | Lys | Val | Gly | Arg | Ser | Ile | Glu | Leu | Ser | Lys | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Asp | Glu | Ile | Met | Glu | Gln | Val | Asp | Ser | Arg | Thr | Ile | Ala | Ala | Ser | Pro | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Phe | Pro | Tyr | Asn | Val | Lys | Leu | Glu | Asp | Val | Gln | Ser | Phe | Phe | Ala | Gln | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| Tyr | Gly | Lys | Val | Asn | Ser | Val | Arg | Leu | Pro | Arg | His | Ile | Ala | Asp | Lys | |
| | 145 | | | 150 | | | | | | 155 | | | | | 160 | |
| Arg | His | Phe | Cys | Gly | Thr | Ala | Leu | Val | Glu | Phe | Ser | Glu | Glu | Glu | Glu | |
| | | | 165 | | | | | | 170 | | | | | 175 | | |
| Ala | Asn | Ala | Val | Leu | Lys | Asn | Thr | Leu | Val | Phe | Ala | Gly | Ala | Asp | Leu | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Glu | Ile | Lys | Pro | Lys | Lys | Glu | Phe | Asp | Thr | Glu | Arg | Glu | Ala | Lys | Lys | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Glu | Ala | Tyr | Glu | Lys | Ser | Gln | Pro | Thr | Lys | Asn | Gly | His | Asp | Glu | Gly | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Tyr | Pro | Lys | Gly | Leu | Ile | Val | Ala | Phe | Lys | Leu | Lys | Ile | Ile | Gln | Ile | |
| | 225 | | | | 230 | | | | | 235 | | | | | 240 | |
| Asp | Gly | Gly | Met | Ala | Glu | Asn | Gly | Gly | Asp | Lys | Glu | Gly | Glu | Thr | Asp | |
| | | | 245 | | | | | | 250 | | | | | 255 | | |
| Asp | Ala | Asn | Lys | Ser | Arg | Thr | Gly | His | Asp | Glu | Lys | Ile | Pro | Glu | Asn | |
| | | 260 | | | | | | 265 | | | | | 270 | | | |
| Ser | Asp | Ile | Lys | Glu | Asp | Leu | Ser | Asp | Asp | Val | Glu | Lys | Ser | Lys | Glu | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Ala | Ala | Ala | Gln | Ser | Val | Lys | Lys | Gly | Glu | Ser | Pro | Ser | Glu | Asn | Ala | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Asp | Asp | Pro | Ile | Ser | Arg | Glu | Asp | Phe | Lys | Glu | Glu | Phe | Gly | Lys | Phe | |
| | 305 | | | | 310 | | | | | 315 | | | | | 320 | |
| Gly | Thr | Val | Arg | Tyr | Val | Asp | Phe | Ser | Ile | Gly | Glu | Asp | Ser | Gly | Tyr | |
| | | | 325 | | | | | | 330 | | | | | 335 | | |
| Ile | Arg | Phe | Glu | Asp | Ser | Lys | Ala | Ala | Glu | Lys | Ala | Arg | Ala | Leu | Ala | |
| | | | 340 | | | | 345 | | | | | | 350 | | | |
| Ala | Ile | Ser | Asp | Glu | Gly | Gly | Leu | Ile | Met | Lys | Gly | His | Leu | Val | Thr | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Leu | Glu | Pro | Val | Ser | Gly | Gln | Ala | Glu | Lys | Asp | Tyr | Trp | Ser | Ala | Ile | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Lys | Gly | Gly | Gln | Gly | Lys | Tyr | Arg | Asp | Asn | Arg | Ser | Asn | Arg | Gly | Arg | |
| | 385 | | | | 390 | | | | | 395 | | | | | 400 | |
| Ala | Asp | Pro | Leu | Lys | Tyr | His | Asn | Ala | Pro | Arg | Met | Asn | Leu | Arg | Ser | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |
| Gly | Leu | Lys | Leu | Lys | Ile | Glu | Val | Glu | Ala | Leu | Trp | His | Thr | Arg | Met | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| Pro | Thr | His | Ile | Phe | Gly | Val | Ile | Leu | Ser | Trp | Asn | Trp | Gln | | | |
| | | 435 | | | | | 440 | | | | | 445 | | | | |

<210> 58
 <211> 859
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1C-087-40 polypeptide sequence

<400> 58
 Met Ala Thr Arg Tyr Trp Ile Val Ser Leu Pro Val Gln Thr Pro Gly
 1 5 10 15
 Ser Thr Ala Asn Ser Leu Trp Ala Arg Leu Gln Asp Ser Ile Ser Arg

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 20 | | | | | 25 | | | | 30 | | | |
| His | Ser | Phe | Asp | Thr | Pro | Leu | Tyr | Arg | Phe | Asn | Val | Pro | Asp | Leu | Arg |
| Val | Gly | Thr | Leu | Asp | Ser | Leu | Leu | Ala | Leu | Ser | Asp | Asp | Leu | Val | Lys |
| Ser | Asn | Val | Phe | Ile | Glu | Gly | Val | Ser | His | Lys | Ile | Arg | Arg | Gln | Ile |
| Glu | Glu | Leu | Glu | Arg | Ala | Gly | Gly | Val | Glu | Ser | Gly | Ala | Leu | Thr | Val |
| Asp | Gly | Val | Pro | Val | Asp | Thr | Tyr | Leu | Thr | Arg | Phe | Val | Trp | Asp | Glu |
| Gly | Lys | Tyr | Pro | Thr | Met | Ser | Pro | Leu | Lys | Glu | Ile | Val | Gly | Ser | Ile |
| Gln | Ser | Gln | Val | Ser | Lys | Ile | Glu | Asp | Asp | Met | Lys | Val | Arg | Gly | Ala |
| Glu | Tyr | Asn | Asn | Val | Arg | Ser | Gln | Leu | Ser | Ala | Ile | Asn | Arg | Lys | Gln |
| Thr | Gly | Ser | Leu | Ala | Val | Arg | Asp | Leu | Ser | Asn | Leu | Val | Lys | Pro | Glu |
| Asp | Met | Val | Thr | Ser | Glu | His | Leu | Val | Thr | Leu | Leu | Ala | Val | Val | Pro |
| Lys | Tyr | Ser | Gln | Lys | Asp | Trp | Leu | Ser | Ser | Tyr | Glu | Ser | Leu | Asp | Thr |
| Phe | Val | Val | Pro | Arg | Ser | Ser | Lys | Lys | Leu | Tyr | Glu | Asp | Asn | Glu | Tyr |
| Ala | Leu | Tyr | Thr | Val | Thr | Leu | Phe | Ala | Lys | Val | Val | Asp | Asn | Phe | Lys |
| Val | Arg | Ala | Arg | Glu | Lys | Gly | Phe | Gln | Val | Arg | Asp | Phe | Glu | Tyr | Ser |
| Ser | Glu | Ala | Gln | Glu | Ser | Arg | Lys | Glu | Glu | Leu | Glu | Lys | Leu | Met | Gln |
| Asp | Gln | Glu | Ala | Met | Arg | Ala | Ser | Leu | Leu | Gln | Trp | Cys | Tyr | Ala | Ser |
| Tyr | Ser | Glu | Asn | Thr | Ile | Tyr | Val | Arg | His | Ala | Lys | Val | Gln | Asn | Phe |
| Val | Leu | Leu | Tyr | Val | Phe | Ser | Ser | Trp | Met | His | Phe | Cys | Ala | Val | Arg |
| Val | Phe | Val | Glu | Ser | Ile | Leu | Arg | Tyr | Gly | Leu | Pro | Pro | Ser | Phe | Leu |
| Ser | Ala | Val | Leu | Ala | Pro | Ser | Gln | Lys | Gly | Glu | Lys | Lys | Val | Arg | Ser |
| Ile | Leu | Glu | Glu | Leu | Cys | Gly | Asn | Val | His | Ser | Ile | Tyr | Trp | Lys | Ser |
| Glu | Asp | Asp | Val | Gly | Val | Ala | Gly | Leu | Gly | Glu | His | Arg | Val | Arg | Cys |
| Cys | Gly | Tyr | Tyr | Val | Phe | Val | Thr | Leu | Ser | Ser | Gln | Lys | Asp | Lys | Leu |
| Gly | Val | Met | Tyr | Arg | Thr | Ser | Ile | Leu | Gly | Asp | Pro | Val | Pro | Thr | Asp |
| Asp | Ser | Arg | Val | Asp | Lys | Thr | Gln | Glu | Met | Met | Val | Lys | Glu | Lys | |
| Glu | Ile | His | Val | Met | Ser | Asn | Arg | Arg | Arg | Lys | Arg | Gly | Glu | Ser | Lys |
| Pro | Gln | Ala | His | Asp | Ala | Gly | Asp | Thr | Thr | Pro | Ile | Asp | Asn | Ile | Leu |
| Thr | Ser | Leu | Asp | Asp | Ala | Pro | Pro | Pro | Pro | Pro | Pro | Pro | Arg | Arg | Glu |
| Leu | Pro | Leu | Leu | Gln | Leu | Asn | Asp | His | Gln | Glu | Ala | Asp | Asp | Ala | Asp |
| Ala | Ser | Ser | Ser | Ser | Ser | Pro | His | Gln | Gln | Arg | Arg | Leu | Trp | Val | Lys |
| Asp | Arg | Ser | Arg | Ala | Trp | Trp | Glu | Leu | Cys | Ser | Ser | Ala | Asp | Tyr | Pro |

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Glu Ala Asp Phe Arg Arg Ala Phe Arg Met Ser Arg Pro Thr Phe His
 530 535 540
 Phe Leu Cys Asp Ala Leu Ala Ala Val Ala Lys Glu Asp Thr Ala
 545 550 555 560
 Leu Arg Ala Ala Ile Pro Val Arg Gln Arg Val Ala Val Cys Val Trp
 565 570 575
 Arg Leu Ala Thr Gly Glu Pro Leu Arg Val Val Ser Lys Arg Phe Gly
 580 585 590
 Leu Gly Ile Ser Thr Cys His Lys Leu Ile Leu Glu Val Cys Ala Ala
 595 600 605
 Ile Arg Asn Leu Leu Met Pro Arg Phe Leu His Trp Pro Asp His Pro
 610 615 620
 Thr Ser Thr Ala Tyr Lys Thr Arg Phe Glu Ala Thr Ser Gly Val Ser
 625 630 635 640
 Gly Val Val Gly Ala Met Tyr Thr Thr His Ile Pro Ile Ile Ala Pro
 645 650 655
 Lys Val Ser Val Ala Ala Tyr Leu Asn Arg Arg His Thr Glu Arg Asn
 660 665 670
 His Lys Thr Ser Tyr Ser Ile Thr Leu Gln Gly Val Val Gly Pro Asp
 675 680 685
 Gly Thr Phe Thr Asp Val Cys Ile Gly Trp Pro Gly Ser Met Ser Asp
 690 695 700
 Glu Gln Val Leu Arg Lys Ser Ala Leu His Gln Arg Ala Ser Ala Ala
 705 710 715 720
 Ala Gly Ser Met Ser Trp Val Val Gly Gly Ala Ser Tyr Pro Leu Thr
 725 730 735
 Glu Trp Met Leu Val Pro Tyr Ala Gln Arg Asn Leu Thr Trp Thr Gln
 740 745 750
 His Ala Phe Asn Glu Lys Val Gly Glu Val Arg Arg Val Ala Thr Glu
 755 760 765
 Ala Phe Val Arg Leu Lys Gly Arg Trp Ala Cys Leu Gln Lys Arg Thr
 770 775 780
 Glu Val Lys Leu Gln Asp Leu Pro Ala Val Leu Ala Ala Cys Cys Val
 785 790 795 800
 Leu His Asn Ile Cys Glu Thr Arg Gly Glu Asp Met Asp Pro Asp Leu
 805 810 815
 Arg Cys Asp Leu Pro Pro Asp Glu Glu Glu Asp Asp Thr Val Leu Val
 820 825 830
 Gln Ser Glu Ser Ala Asn Lys Val Arg Asp Asp Ile Ala His Asn Leu
 835 840 845
 Leu His Arg Gly Leu Ala Gly Thr Ala Phe Phe
 850 855

<210> 59

<211> 473

<212> PRT

<213> Oryza sativa

<220>

<221> PEPTIDE

<222> (0)...(0)

<223> line 1C-017-14 polypeptide sequence

<400> 59

Met Asp Ala Leu Leu Val Glu Lys Val Leu Leu Gly Leu Phe Val Ala
 1 5 10 15
 Ala Val Leu Ala Leu Val Val Ala Lys Leu Thr Gly Lys Arg Leu Arg
 20 25 30
 Leu Pro Pro Gly Pro Ala Gly Ala Pro Ile Val Gly Asn Trp Leu Gln
 35 40 45
 Val Gly Asp Asp Leu Asn His Arg Asn Leu Met Ala Leu Ala Arg Arg
 50 55 60

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Phe Gly Asp Ile Leu Leu Leu Arg Met Gly Val Arg Asn Leu Val Val
 65 70 75 80
 Val Ser Ser Pro Asp Leu Ala Lys Glu Val Leu His Thr Gln Gly Val
 85 90 95
 Glu Phe Gly Ser Arg Thr Arg Asn Val Val Phe Asp Ile Phe Thr Gly
 100 105 110
 Lys Gly Gln Asp Met Val Phe Thr Val Tyr Gly Asp His Trp Arg Lys
 115 120 125
 Met Arg Arg Ile Met Thr Val Pro Phe Phe Thr Asn Lys Val Val Ala
 130 135 140
 Gln Asn Arg Ala Gly Trp Glu Glu Glu Ala Arg Leu Val Val Glu Asp
 145 150 155 160
 Val Arg Arg Asp Pro Thr Ala Ala Thr Ser Gly Val Val Ile Arg Arg
 165 170 175
 Arg Leu Gln Leu Met Met Tyr Asn Asp Met Phe Arg Ile Met Phe Asp
 180 185 190
 Arg Arg Phe Asp Ser Val Asp Asp Pro Leu Phe Asn Lys Leu Lys Ala
 195 200 205
 Phe Asn Ala Glu Arg Ser Arg Leu Ser Gln Ser Phe Glu Tyr Asn Tyr
 210 215 220
 Gly Asp Phe Ile Pro Val Leu Arg Pro Phe Leu Arg Arg Tyr Leu Ala
 225 230 235 240
 Arg Cys His Gln Leu Lys Ser Gln Arg Met Lys Leu Phe Glu Asp His
 245 250 255
 Phe Val Gln Glu Arg Lys Arg Val Met Glu Gln Thr Gly Glu Ile Arg
 260 265 270
 Cys Ala Met Asp His Ile Leu Glu Ala Glu Arg Lys Gly Glu Ile Asn
 275 280 285
 His Asp Asn Val Leu Tyr Ile Val Glu Asn Ile Asn Val Ala Ala Ile
 290 295 300
 Glu Thr Thr Leu Trp Ser Ile Glu Trp Gly Ile Ala Glu Leu Val Asn
 305 310 315 320
 His Pro Ser Ile Gln Ser Lys Val Arg Glu Glu Met Ala Ser Val Leu
 325 330 335
 Gly Gly Ala Ala Val Thr Glu Pro Asp Leu Glu Arg Leu Pro Tyr Leu
 340 345 350
 Gln Ala Val Val Lys Glu Thr Leu Arg Leu Arg Met Ala Ile Pro Leu
 355 360 365
 Leu Val Pro His Met Asn Leu Ala Asp Gly Lys Leu Ala Gly Tyr Asp
 370 375 380
 Ile Pro Ala Glu Ser Lys Ile Leu Val Asn Ala Trp Phe Leu Ala Asn
 385 390 395 400
 Asp Pro Lys Arg Trp Val Arg Pro Asp Glu Phe Arg Pro Glu Arg Phe
 405 410 415
 Leu Glu Glu Glu Lys Ala Val Glu Ala His Gly Asn Asp Phe Arg Phe
 420 425 430
 Val Pro Phe Gly Val Gly Arg Arg Ser Cys Pro Gly Ile Ile Leu Ala
 435 440 445
 Leu Pro Ile Ile Gly Ile Thr Leu Gly Arg Leu Val Gln Ser Phe Asp
 450 455 460
 Leu Leu Pro Pro Pro Gly Met Asp Lys
 465 470

<210> 60
 <211> 408
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (O)...(O)
 <223> line 1C-038-56 polypeptide sequence

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<400> 60

```

Asp Val Gln Gln His Ser Gly Ser Ser Ser Ser Thr Glu Ser Asp
1      5      10      15
Val Gln Glu Thr Ala Ala Val Ala Val Ala Asp Pro Ser Pro Arg Ser
20      25      30
Glu Val Val Asp Gly Glu Ser Pro Pro Gln Pro Gly Gly Glu Ala Ala
35      40      45
Ser His Gln Gln Gln Lys Glu Met Lys Leu Lys Lys Pro Asp Lys
50      55      60
Ile Leu Pro Cys Pro Arg Cys Ser Ser Met Asp Thr Lys Phe Cys Tyr
65      70      75      80
Phe Asn Asn Tyr Asn Val Asn Gln Pro Arg His Phe Cys Lys His Cys
85      90      95
Gln Arg Tyr Trp Thr Ala Gly Gly Ala Met Arg Asn Val Pro Val Gly
100      105      110
Ala Gly Arg Arg Lys Asn Lys Asn Ala Thr Ala Ala Ala His Phe Leu
115      120      125
His Arg Val Arg Ala Cys Ala Ala Ala Ala Met Pro Ala Ala Pro
130      135      140
His Asp Ala Thr Asn Ala Thr Val Leu Ser Phe Gly Gly Gly Gly Gly
145      150      155      160
Gly His Asp Ala Leu Pro Val Thr Leu Asp Leu Ala Asp Lys Met Thr
165      170      175
Arg Leu Gly Lys Glu Gly Leu Val Ala His Ala Arg Asn Ala Asp Ala
180      185      190
Ala Ala Ala Cys Ser Glu Val Ser Ser Asn Arg Asp Asp Glu Gln Ile
195      200      205
Gly Asn Thr Val Ala Lys Pro Ala Asn Gly Leu Gln Gln His Pro Pro
210      215      220
Pro Pro His His His His Ser Ala Met Asn Gly Gly Gly Ile Trp
225      230      235      240
Pro Tyr Tyr Thr Ser Gly Ile Ala Ile Pro Ile Tyr Pro Ala Ala Pro
245      250      255
Ala Tyr Trp Gly Cys Met Ile Pro Pro Pro Gly Ala Trp Ser Leu Pro
260      265      270
Trp Pro Ala Thr Val Gln Ser Gln Ala Ile Ser Ser Ser Ser Pro Pro
275      280      285
Thr Ser Ala Thr Pro Ser Val Ser Ser Phe Thr Leu Gly Lys His Pro
290      295      300
Arg Glu Gly Gly Asp His Glu Ala Arg Asp His His Gly Asn Gly Lys
305      310      315      320
Val Trp Val Pro Lys Thr Ile Arg Ile Asp Asn Ala Asp Glu Val Ala
325      330      335
Arg Ser Ser Ile Arg Ser Leu Phe Ala Phe Arg Gly Gly Asp Lys Val
340      345      350
Asp Asp Asn Asn Asp Asp Asp Gly Thr Ser Val His Lys Leu Ala Thr
355      360      365
Thr Val Phe Glu Pro Lys Arg Asp Gly Lys Thr Ala Lys His Pro Ala
370      375      380
Ile Thr Ser Leu Pro Leu Leu His Thr Asn Pro Val Ala Leu Thr Arg
385      390      395      400
Ser Ala Thr Phe Gln Glu Gly Ser
405

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<210> 61

<211> 290

<212> PRT

<213> Oryza sativa

<220>

<221> PEPTIDE

<222> (0)...(0)

<223> line 1C-041-47 polypeptide sequence

<400> 61

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Met Gly Ile Lys Gly Leu Thr Lys Leu Leu Ala Asp Asn Ala Pro Lys
 1      5      10      15
Ala Met Lys Glu Gln Lys Phe Glu Ser Tyr Phe Gly Arg Arg Ile Ala
 20      25      30
Val Asp Ala Ser Met Ser Ile Tyr Gln Phe Leu Ser Phe Ala Arg Tyr
 35      40      45
Ser Lys Arg Glu Asp Ala Thr Lys Glu Leu Thr Glu Ala Val Glu Glu
 50      55      60
Gly Asp Lys Asp Ala Ile Glu Lys Phe Ser Lys Arg Thr Val Lys Val
 65      70      75
Thr Lys Gln His Asn Glu Glu Cys Lys Arg Leu Leu Arg Leu Met Gly
 80      85      90
Val Pro Val Val Glu Val Tyr Ala Val Ala Ser Glu Asp Met Asp Ser
 100     105     110
Leu Thr Phe Gly Ala Pro Arg Phe Leu Arg His Leu Met Asp Pro Ser
 115     120     125
Ser Lys Lys Ile Pro Val Met Glu Phe Glu Val Ala Lys Val Leu Glu
 130     135     140
Glu Leu Glu Leu Thr Met Asp Gln Phe Ile Asp Leu Cys Ile Leu Ser
 145     150     155
Gly Cys Asp Tyr Cys Asp Ser Ile Lys Gly Ile Gly Gly Gln Thr Ala
 160     165     170
Leu Lys Leu Ile Arg Gln His Gly Ser Ile Glu Ser Ile Leu Glu Asn
 175     180     185
Ile Asn Lys Asp Arg Tyr Gln Ile Pro Glu Asp Trp Pro Tyr Gln Glu
 190     195     200
Ala Arg Arg Leu Phe Lys Glu Pro Asn Val Thr Leu Asp Ile Pro Glu
 205     210     215
Leu Lys Trp Asn Ala Pro Asp Glu Glu Ala Ile Glu Lys Ile Lys Phe
 220     225     230
Ala Lys Asn Lys Ser Ser Gln Gly Arg Leu Glu Ser Phe Phe Lys Pro
 235     240     245
Val Val Ser Thr Ser Val Pro Leu Lys Arg Lys Asp Thr Ser Glu Lys
 250     255     260
Pro Thr Lys Ala Val Ala Asn Lys Thr Lys Gly Ala Gly Lys
 265     270     275
Lys Lys
 280     285     290

```

<210> 62

<211> 552

<212> PRT

<213> Oryza sativa

<220>

<221> PEPTIDE

<222> (0)...(0)

<223> line 1C-064-20 polypeptide sequence

<400> 62

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Met Ala Ser Ala Pro Gly Asp Gly Lys Gln Gly Gly Gly Gly Gly Gly
 1      5      10      15
Pro Ala Val Gly Ile Asp Leu Gly Thr Thr Tyr Ser Cys Val Ala Val
 20      25      30
Trp Arg His Asp Arg Gly Glu Val Ile Ala Asn Asp Gln Arg Asn Arg
 35      40      45
Leu Thr Pro Ser Cys Val Ala Phe Thr Ala Asp Asp Asp Ser Phe
 50      55      60

```

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| | | | | | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|------------|-----|------------|-----------|-----------|
| Val 65 | Gly | Asp | Ala | Ala | Phe 70 | Asn | Gln | Ser | Ala | Leu 75 | Asn | Pro | Thr | Asn | Thr 80 |
| Ile | Phe | Glu | Val | Lys 85 | Arg | Leu | Ile | Gly | Arg 90 | Arg | Phe | Ser | Asp | Asp 95 | Ser |
| Val | Gln | Lys | Asp 100 | Ile | Lys | Leu | Trp | Pro 105 | Phe | Lys | Val | Val | Ala 110 | Gly | Gln |
| Glu | Asp | Arg | Pro | Met | Ile | Val | Val | Arg | His | Glu | Gly | Glu | Glu | Arg | Gln |
| Phe | Met 115 | Pro | Glu | Glu | Ile | Ser | Ser | Met | Val | Leu | Ala 125 | Lys | Met | Arg | Glu |
| Thr 130 | Ala | Glu | Val | Tyr | Leu 135 | Gly | Lys | Thr | Val | Thr | Lys | Ala | Val | Ile | Thr |
| Thr 145 | Ala | Glu | Val | Tyr | Leu 150 | Gly | Lys | Thr | Val | Thr | Lys | Ala | Val | Ile | Thr |
| Val | Pro | Val | Tyr | Phe 165 | Asn | Asn | Ala | Gln | Arg | Gln | Ala | Thr | Met | Asp | Ala |
| Gly | Ala | Ile | Ala 180 | Gly | Leu | Asn | Val | Met | Arg | Ile | Ile | Asn | Glu | Pro | Thr |
| Ala | Ala | Ala 195 | Leu | Ala | Tyr | Cys | Leu 200 | Glu | Lys | Met | Pro | Val | Ser | Asn | Lys |
| Gly | Arg | Met | Val | Leu | Val | Phe 215 | Asp | Leu | Gly | Gly | Gly | Thr | Phe | Asp | Ile |
| Ser 225 | Leu | Leu | Asn | Ile | Asp 230 | Pro | Gly | Glu | Gly | Thr | Ala | Gly | Asp | Thr | His |
| Leu | Gly | Gly | Ala | Asp 245 | Phe | Asp | Asn | Glu | Leu | Val | Lys | His | Ser | Leu | Arg |
| Glu | Phe | Asn | Arg 260 | Lys | His | Gly | Ser | Met | Asp | Ile | Glu | Ser | Asn | Gln | Lys |
| Ala | Leu | Arg 275 | Arg | Leu | Arg | Thr | Ala 280 | Cys | Glu | Arg | Ala | Lys | Arg | Met | Leu |
| Ser | Ser | Thr | Met | Gln | Thr | Thr | Ile | Glu | Val | Asp | Ser | Leu | His | Gln | Gly |
| Ile 305 | Asp | Phe | Arg | Val | Thr 310 | Leu | Thr | Arg | Ser | Arg | Phe | Glu | Glu | Leu | Asn |
| Lys | Asp | Leu | Phe | Ser 325 | Lys | Cys | Met | Glu | Ala | Met | Glu | Asn | Cys | Leu | Arg |
| Asp | Ala | Lys | Val | Asp | Lys | Trp | Ser | Val | Asp | Asp | Val | Val | Leu | Val | Gly |
| Gly | Ser | Thr 355 | Arg | Ile | Pro | Lys | Val | Gln | Lys | Met | Leu | Ser | Glu | Phe | Phe |
| Asp | Gly | Lys | Glu | Leu | Cys | Arg 375 | Ser | Ile | Asn | Pro | Asp | Glu | Ala | Val | Ala |
| Tyr 385 | Gly | Ala | Ala | Ile | Gln | Ala | Ser | Ile | Leu | Cys | Gly | Gly | Thr | Asp | Asp |
| Lys | Arg | Leu | Val | Asp 405 | Met | Leu | Leu | Arg | Glu | Val | Thr | Pro | Leu | Ser | Leu |
| Gly | Val | Glu | Thr 420 | Glu | Asp | Asn | Cys | Thr | Met | Ser | Val | Val | Ile | Pro | Arg |
| Asn | Thr | Ala 435 | Ile | Pro | Thr | Lys | Lys | Val | Lys | Asn | Phe | Thr | Thr | Leu | Tyr |
| Asp | Asn 450 | Gln | Ile | Asn | Val | Ser | Phe | Pro | Val | Tyr | Glu | Gly | Glu | Ser | Ala |
| Asn 465 | Thr | Lys | Asp | Asn | Asn 470 | Leu | Leu | Gly | Glu | Phe | Thr | Leu | Tyr | Gly | Ile |
| Pro | Pro | Ala | Pro | Lys 485 | Arg | Val | Pro | Ser | Ile | Asp | Val | Thr | Phe | Asp | Ile |
| Asp | Ala | Asn | Gly 500 | Val | Leu | Asn | Val | Ser | Ala | Glu | His | Lys | Val | Thr | Gly |
| Gln | Lys | Asn 515 | Ser | Ile | Thr | Ile | Thr 520 | Asn | Arg | Ser | Gly | Arg | Leu | Asn | Gln |
| Glu | Glu | Ile | Asp | Arg | Met | Ala 535 | Leu | Glu | Pro | Glu | Arg | His | Lys | Met | Lys |
| Arg 545 | Ile | Lys | Leu | His | Glu 550 | Val | Val | | | | | | | | |

<210> 63
 <211> 479
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1C-109-35 polypeptide sequence

<400> 63

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Ser | Ser | Ala | Thr | Val | Val | Pro | Leu | Ala | Tyr | Gln | Gly | Asn | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ser | Ala | Ser | Val | Ala | Asp | Trp | Leu | Asn | Lys | Gly | Asp | Asn | Ala | Trp | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Val | Ala | Ala | Thr | Leu | Val | Gly | Leu | Gln | Ser | Val | Pro | Gly | Leu | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Val | Leu | Tyr | Gly | Gly | Val | Val | Lys | Lys | Lys | Trp | Ala | Val | Asn | Ser | Ala |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Phe | Met | Ala | Leu | Tyr | Ala | Phe | Ala | Ala | Val | Trp | Ile | Cys | Trp | Val | Thr |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 |
| Trp | Ala | Tyr | Asn | Met | Ser | Phe | Gly | Glu | Lys | Leu | Leu | Pro | Ile | Trp | Gly |
| | | | 85 | | | | | | 90 | | | | | 95 | |
| Lys | Ala | Arg | Pro | Ala | Leu | Asp | Gln | Gly | Leu | Leu | Val | Gly | Arg | Ala | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Pro | Ala | Thr | Val | His | Tyr | Arg | Ala | Asp | Gly | Ser | Val | Glu | Thr | Ala |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ala | Val | Glu | Pro | Leu | Tyr | Pro | Met | Ala | Thr | Val | Val | Tyr | Phe | Gln | Cys |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Val | Phe | Ala | Ala | Ile | Thr | Leu | Ile | Leu | Val | Ala | Gly | Ser | Leu | Leu | Gly |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Arg | Met | Ser | Phe | Leu | Ala | Trp | Met | Ile | Phe | Val | Pro | Leu | Trp | Leu | Thr |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Phe | Ser | Tyr | Thr | Val | Gly | Ala | Phe | Ser | Leu | Trp | Gly | Gly | Gly | Phe | Leu |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Phe | His | Trp | Gly | Val | Ile | Asp | Tyr | Cys | Gly | Gly | Tyr | Val | Ile | His | Val |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ser | Ala | Gly | Ile | Ala | Gly | Phe | Thr | Ala | Ala | Tyr | Trp | Val | Gly | Pro | Arg |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ala | Gln | Lys | Asp | Arg | Glu | Arg | Phe | Pro | Pro | Asn | Asn | Ile | Leu | Phe | Thr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Leu | Thr | Gly | Ala | Gly | Leu | Leu | Trp | Met | Gly | Trp | Ala | Gly | Phe | Asn | Gly |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Gly | Gly | Pro | Tyr | Ala | Ala | Asn | Ser | Val | Ala | Ser | Met | Ala | Val | Leu | Asn |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Thr | Asn | Ile | Cys | Thr | Ala | Met | Ser | Leu | Ile | Val | Trp | Thr | Cys | Leu | Asp |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Val | Ile | Phe | Phe | Lys | Lys | Pro | Ser | Val | Val | Gly | Ala | Val | Gln | Gly | Met |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Ile | Thr | Gly | Leu | Val | Cys | Ile | Thr | Pro | Ala | Ala | Gly | Val | Val | Gln | Gly |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Trp | Ala | Ala | Leu | Val | Met | Gly | Val | Leu | Ala | Gly | Ser | Ile | Pro | Trp | Tyr |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Thr | Met | Met | Ile | Leu | His | Lys | Arg | Ser | Lys | Ile | Leu | Gln | Arg | Val | Asp |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Asp | Thr | Leu | Gly | Val | Phe | His | Thr | His | Gly | Val | Ala | Gly | Leu | Leu | Gly |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Gly | Leu | Leu | Thr | Gly | Leu | Phe | Ala | Glu | Pro | Thr | Leu | Cys | Asn | Leu | Phe |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| Leu | Pro | Val | Ala | Asp | Ser | Arg | Gly | Ala | Phe | Tyr | Gly | Gly | Ala | Gly | Gly |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Ala | Gln | Phe | Gly | Lys | Gln | Ile | Ala | Gly | Gly | Leu | Phe | Val | Val | Ala | Trp |

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405
 Asn Val Val Val Thr Ser Leu Ile Cys Leu Ala Ile Asn Leu Leu Val
 420
 Pro Leu Arg Met Pro Asp Asp Lys Leu Glu Val Gly Asp Asp Ala Val
 435
 His Gly Glu Glu Ala Tyr Ala Leu Trp Gly Asp Gly Glu Met Tyr Asp
 450
 Val Thr Lys His Gly Ser Asp Ala Ala Val Ala Pro Val Val Val
 465 470 475

<210> 64
 <211> 2177
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1C-109-51 polypeptide sequence

<400> 64
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 Tyr Glu Tyr Arg Ala Asn Ser Ser Leu Val Leu Thr Thr Asp Ser Arg
 20 25 30
 Pro Arg Asp Thr His Glu Pro Thr Gly Glu Pro Glu Thr Leu Trp Gly
 35 40 45
 Arg Ile Asp Pro Arg Ser Phe Gly Asp Arg Ala Val Gln Ala Lys Pro
 50 55 60
 Pro Glu Leu Glu Glu Lys Leu Thr Lys Ser Arg Lys Lys Lys Ala Ala
 65 70 75 80
 Ala Ser Asp Pro Asp Leu His Arg Arg Asp Ala Lys Arg Arg Arg
 85 90 95
 Arg Ala Ala Ala Ala Gln Ser Glu Val Ser Val Leu Ser Leu Thr Asp
 100 105 110
 Asp Val Val Tyr Lys Pro Gln Thr Lys Glu Thr Arg Ala Ala Tyr Glu
 115 120 125
 Ala Leu Leu Ser Val Ile Gln Gln Phe Gly Gly Gln Pro Leu Asp
 130 135 140
 Val Leu Gly Gly Ala Ala Asp Glu Val Leu Ala Val Leu Lys Asn Asp
 145 150 155 160
 Lys Ile Lys Ser Pro Asp Lys Lys Lys Glu Ile Glu Lys Leu Leu Asn
 165 170 175
 Pro Ile Ser Asn Gln Met Phe Asp Gln Ile Val Ser Ile Gly Lys Leu
 180 185 190
 Ile Thr Asp Phe His Asp Ala Ser Ala Gly Asp Ser Ala Ala Ala Pro
 195 200 205
 Ser Gly Asp Gly Met Asp Thr Ala Leu Asp Asp Asp Ile Gly Val Ala
 210 215 220
 Val Glu Phe Glu Glu Asn Glu Asp Asp Glu Glu Ser Asp Phe Asp Gln
 225 230 235 240
 Val Gln Asp Asp Leu Asp Glu Asp Glu Asp Asp Asp Leu Pro Glu Ser
 245 250 255
 Asn Ala Pro Gly Ala Met Gln Met Gly Gly Glu Leu Asp Asp Asp
 260 265 270
 Met Gln Asn Ser Asn Glu Gly Leu Thr Ile Asn Val Gln Asp Ile Asp
 275 280 285
 Ala Tyr Trp Leu Gln Arg Lys Val Ser Gln Ala Tyr Glu Asp Ile Asp
 290 295 300
 Pro Gln His Ser Gln Lys Leu Ala Glu Glu Ile Leu Lys Ile Ile Ala
 305 310 315 320
 Glu Gly Asp Asp Arg Asp Val Glu Asn Arg Leu Val Met Leu Leu Asp

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| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | | | | | | | | | | | | | | |
| Tyr | Glu | Lys | Phe | Asp | Leu | Ile | Lys | Leu | Leu | Leu | Arg | Asn | Arg | Leu | Lys | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Ile | Val | Trp | Cys | Thr | Arg | Leu | Ala | Arg | Ala | Glu | Asp | Gln | Glu | Gln | Arg | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Lys | Lys | Ile | Glu | Glu | Asp | Met | Met | Gly | Asn | Pro | Thr | Leu | Thr | Pro | Ile | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Leu | Glu | Gln | Leu | His | Ala | Thr | Arg | Ala | Ser | Ala | Lys | Glu | Arg | Gln | Lys | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Asn | Leu | Glu | Lys | Ser | Ile | Arg | Asp | Glu | Ala | Lys | Arg | Leu | Thr | Lys | Ser | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |
| Glu | Asn | Thr | Gly | Ile | Asp | Gly | Ala | Arg | Asp | Arg | Arg | Ala | Val | Asp | Arg | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| Asp | Met | Glu | Ser | Gly | Trp | Leu | Lys | Gly | Gln | Arg | Gln | Leu | Leu | Asp | Leu | |
| | | 435 | | | | | 440 | | | | | 445 | | | | |
| Asp | Ser | Leu | Ser | Phe | His | Gln | Gly | Gly | Leu | Leu | Met | Ala | Asn | Lys | Lys | |
| | 450 | | | | | 455 | | | | | 460 | | | | | |
| Cys | Glu | Leu | Pro | Pro | Gly | Ser | Phe | Arg | Thr | Pro | His | Lys | Gly | Tyr | Glu | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | |
| Glu | Val | His | Val | Pro | Ala | Leu | Lys | Ala | Lys | Pro | Tyr | Glu | Thr | Gly | Glu | |
| | | | | 485 | | | | | 490 | | | | | 495 | | |
| Lys | Ile | Val | Lys | Ile | Ser | Asp | Met | Pro | Glu | Trp | Ala | Gln | Pro | Ala | Phe | |
| | | | 500 | | | | | 505 | | | | | 510 | | | |
| Ala | Lys | Met | Thr | Gln | Leu | Asn | Arg | Val | Gln | Ser | Lys | Val | Tyr | Glu | Thr | |
| | | 515 | | | | | 520 | | | | | 525 | | | | |
| Ala | Leu | Phe | Lys | Pro | Asp | Asn | Ile | Leu | Leu | Cys | Ala | Pro | Thr | Gly | Ala | |
| | 530 | | | | | 535 | | | | | 540 | | | | | |
| Gly | Lys | Thr | Asn | Val | Ala | Val | Leu | Thr | Ile | Leu | Gln | Gln | Ile | Gly | Leu | |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 | |
| His | Met | Lys | Asp | Gly | Val | Phe | Asp | Asn | Thr | Lys | Tyr | Lys | Ile | Val | Tyr | |
| | | | | 565 | | | | | 570 | | | | | 575 | | |
| Val | Ala | Pro | Met | Lys | Ala | Leu | Val | Ala | Glu | Val | Val | Gly | Asn | Leu | Ser | |
| | | | 580 | | | | | 585 | | | | | 590 | | | |
| Ala | Arg | Leu | Ser | Ala | Tyr | Gly | Ile | Thr | Val | Arg | Glu | Leu | Ser | Gly | Asp | |
| | | 595 | | | | | 600 | | | | | 605 | | | | |
| Gln | Asn | Leu | Thr | Lys | Gln | Gln | Ile | Asp | Glu | Thr | Gln | Ile | Ile | Val | Thr | |
| | 610 | | | | | 615 | | | | | 620 | | | | | |
| Thr | Pro | Glu | Lys | Trp | Asp | Ile | Val | Thr | Arg | Lys | Ser | Gly | Asp | Arg | Thr | |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 | |
| Tyr | Thr | Gln | Met | Val | Lys | Leu | Leu | Ile | Ile | Asp | Glu | Ile | His | Leu | Leu | |
| | | | | 645 | | | | | 650 | | | | | 655 | | |
| His | Asp | Asn | Arg | Gly | Pro | Val | Leu | Glu | Ser | Ile | Val | Ser | Arg | Thr | Val | |
| | | | 660 | | | | | 665 | | | | | | | | |

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Glu Glu Leu Phe Ala Asp Lys His Ile Gln Val Leu Val Ser Thr Ala
 835 840 845
 Thr Leu Ala Trp Gly Val Asn Leu Pro Ala His Thr Val Ile Ile Lys
 850 855 860
 Gly Thr Gln Ile Tyr Asn Pro Glu Lys Gly Ala Trp Thr Glu Leu Ser
 865 870 875 880
 Pro Leu Asp Val Met Gln Met Leu Gly Arg Ala Gly Arg Pro Gln Tyr
 885 890 895
 Asp Thr His Gly Glu Gly Ile Ile Leu Thr Gly His Ser Glu Leu Gln
 900 905 910
 Tyr Tyr Leu Ser Leu Met Asn Gln Gln Leu Pro Ile Glu Ser Gln Phe
 915 920 925
 Ile Ser Arg Leu Ala Asp Gln Leu Asn Ala Glu Ile Val Leu Gly Thr
 930 935 940
 Ile Gln Asn Ala Arg Glu Ala Cys Ser Trp Leu Gly Tyr Thr Tyr Leu
 945 950 955 960
 Tyr Ile Arg Met Leu Arg Asn Pro Thr Leu Tyr Gly Leu Pro Ala Asp
 965 970 975
 Ile Met Glu Thr Asp Lys Thr Leu Asp Glu Arg Arg Ala Asp Leu Val
 980 985 990
 His Ser Ala Asn Leu Leu Asp Arg Asn Asn Leu Ile Lys Tyr Asp
 995 1000 1005
 Arg Lys Thr Gly Tyr Phe Gln Val Thr Asp Leu Gly Arg Ile Ala Ser
 1010 1015 1020
 Tyr Tyr Tyr Ile Ser His Gly Thr Ile Ser Thr Tyr Asn Glu Tyr Leu
 1025 1030 1035 1040
 Lys Pro Thr Met Gly Asp Ile Glu Leu Cys Arg Leu Phe Ser Leu Ser
 1045 1050 1055
 Glu Glu Phe Lys Tyr Val Ser Val Arg Gln Asp Glu Lys Met Glu Leu
 1060 1065 1070
 Ala Lys Leu Leu Asp Arg Val Pro Ile Pro Val Lys Glu Ser Leu Glu
 1075 1080 1085
 Glu Pro Ser Ala Lys Ile Asn Val Leu Leu Gln Ala Tyr Ile Ser Arg
 1090 1095 1100
 Leu Lys Leu Glu Gly Leu Ser Leu Ser Ser Asp Met Val Tyr Ile Arg
 1105 1110 1115 1120
 Gln Ser Ala Gly Arg Leu Leu Arg Ala Leu Phe Glu Ile Val Leu Lys
 1125 1130 1135
 Arg Gly Trp Ala Gln Leu Ala Glu Lys Ala Leu Asn Leu Cys Lys Met
 1140 1145 1150
 Ile Asp Lys Gln Met Trp Asn Val Gln Thr Pro Leu Arg Gln Phe Pro
 1155 1160 1165
 Gly Ile Pro Lys Glu Ile Leu Met Lys Leu Glu Lys Lys Glu Leu Ala
 1170 1175 1180
 Trp Glu Arg Tyr Tyr Asp Leu Ser Ser Gln Glu Ile Gly Glu Leu Ile
 1185 1190 1195 1200
 Arg Phe Pro Lys Met Gly Arg Gln Leu His Lys Cys Ile His Gln Leu
 1205 1210 1215
 Pro Lys Leu Asn Leu Ser Ala His Val Gln Pro Ile Thr Arg Thr Val
 1220 1225 1230
 Leu Gly Phe Glu Leu Thr Ile Thr Pro Asp Phe Gln Trp Asp Asp Lys
 1235 1240 1245
 Val His Gly Tyr Val Glu Pro Phe Trp Val Ile Val Glu Asp Asn Asp
 1250 1255 1260
 Gly Glu Asn Ile Leu His Glu Tyr Phe Met Val Lys Lys Gln Tyr
 1265 1270 1275 1280
 Val Asp Glu Asp His Thr Leu Asn Phe Thr Val Pro Ile Tyr Glu Pro
 1285 1290 1295
 Leu Pro Pro Gln Tyr Phe Ile Arg Val Val Ser Asp Lys Trp Leu Gly
 1300 1305 1310
 Ser Gln Thr Ile Leu Pro Val Cys Phe Arg His Leu Ile Leu Pro Glu
 1315 1320 1325
 Lys Tyr Ala Pro Pro Thr Glu Leu Leu Asp Leu Gln Pro Leu Pro Val

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| | | |
|---|------|------|
| 1330 | 1335 | 1340 |
| Thr Ala Leu Arg Asn Ala Arg Tyr Glu Gly Leu Tyr Ser Ala Phe Lys | | |
| 1345 | 1350 | 1355 |
| His Phe Asn Pro Ile Gln Thr Gln Val Phe Thr Val Leu Tyr Asn Thr | | 1360 |
| | 1365 | 1370 |
| Asp Asp Ser Val Leu Val Ala Ala Pro Thr Gly Ser Gly Lys Thr Ile | | 1375 |
| | 1380 | 1385 |
| Cys Ala Glu Phe Ala Ile Leu Arg Asn His Gln Lys Ala Val Ser Gly | | 1390 |
| | 1395 | 1400 |
| Glu Ser Asn Met Arg Val Val Tyr Ile Ala Pro Ile Glu Ala Leu Ala | | 1405 |
| | 1410 | 1415 |
| Lys Glu Arg Tyr Arg Asp Trp Glu Gln Lys Phe Gly Glu Phe Ala Arg | | 1420 |
| 1425 | 1430 | 1435 |
| Val Val Glu Leu Thr Gly Glu Thr Ala Ala Asp Leu Lys Leu Leu Asp | | 1440 |
| | 1445 | 1450 |
| Lys Gly Glu Ile Ile Ile Ser Thr Pro Glu Lys Trp Asp Ala Leu Ser | | 1455 |
| | 1460 | 1465 |
| Arg Arg Trp Lys Gln Arg Lys Gln Val Gln Gln Val Ser Leu Phe Ile | | 1470 |
| | 1475 | 1480 |
| Val Asp Glu Leu His Leu Ile Gly Ser Glu Lys Gly His Val Leu Glu | | 1485 |
| | 1490 | 1495 |
| Val Ile Val Ser Arg Met Arg Arg Ile Ala Ser His Ile Gly Ser Asn | | 1500 |
| 1505 | 1510 | 1515 |
| Ile Arg Ile Val Ala Leu Ser Ala Ser Leu Ala Asn Ala Lys Asp Leu | | 1520 |
| | 1525 | 1530 |
| Gly Glu Trp Ile Gly Ala Thr Ser His Gly Leu Phe Asn Phe Pro Pro | | 1535 |
| | 1540 | 1545 |
| Ala Val Arg Pro Val Pro Leu Glu Ile His Ile Gln Gly Val Asp Ile | | 1550 |
| | 1555 | 1560 |
| Ala Asn Phe Glu Ala Arg Met Gln Ala Met Thr Lys Pro Thr Tyr Thr | | 1565 |
| | 1570 | 1575 |
| Ala Ile Thr Gln His Ala Lys Asn Gly Lys Pro Ala Leu Val Phe Val | | 1580 |
| 1585 | 1590 | 1595 |
| Pro Thr Arg Lys His Ala Arg Leu Thr Ala Leu Asp Leu Cys Ala Tyr | | 1600 |
| | 1605 | 1610 |
| Ser Ser Ala Glu Gly Gly Gly Thr Pro Phe Leu Leu Gly Ser Glu Asp | | 1615 |
| | 1620 | 1625 |
| Glu Met Asp Ala Phe Thr Gly Gly Ile Ser Asp Glu Thr Leu Lys Tyr | | 1630 |
| | 1635 | 1640 |
| Thr Leu Lys Cys Gly Val Gly Tyr Leu His Glu Gly Leu Ser Asp Leu | | 1645 |
| | 1650 | 1655 |
| Glu Gln Glu Val Val Thr Gln Leu Phe Leu Ser Gly Arg Ile Gln Val | | 1660 |
| 1665 | 1670 | 1675 |
| Cys Val Ala Ser Ser Thr Val Cys Trp Gly Arg Ser Leu Pro Ala His | | 1680 |
| | 1685 | 1690 |
| Leu Val Val Val Met Gly Thr Gln Tyr Tyr Asp Gly Arg Glu Asn Ala | | 1695 |
| | 1700 | 1705 |
| His Thr Asp Tyr Pro Ile Thr Asp Leu Leu Gln Met Met Gly His Ala | | 1710 |
| | 1715 | 1720 |
| Ser Arg Pro Leu Gln Asp Asn Ser Gly Lys Cys Val Ile Leu Cys His | | 1725 |
| | 1730 | 1735 |
| Ala Pro Arg Lys Glu Tyr Tyr Lys Lys Phe Leu Phe Glu Ala Phe Pro | | 1740 |
| 1745 | 1750 | 1755 |
| Val Glu Ser His Leu His His Phe Leu His Asp His Met Asn Ala Glu | | 1760 |
| | 1765 | 1770 |
| Val Val Val Gly Val Ile Glu Asn Lys Gln Asp Ala Val Asp Tyr Leu | | 1775 |
| | 1780 | 1785 |
| Thr Trp Thr Phe Met Tyr Arg Arg Leu Thr Lys Asn Pro Asn Tyr Tyr | | 1790 |
| | 1795 | 1800 |
| Asn Leu Gln Gly Val Ser His Arg His Leu Ser Asp His Leu Ser Glu | | 1805 |
| 1810 | 1815 | 1820 |
| Leu Val Glu Thr Val Leu Asn Asp Leu Glu Ser Ser Lys Cys Val Ala | | 1825 |
| 1825 | 1830 | 1835 |
| | | 1840 |

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Ile Glu Glu Asp Met Tyr Leu Lys Pro Leu Asn Leu Gly Leu Ile Ala
 1845 1850 1855
 Ser Tyr Tyr Tyr Ile Ser Tyr Thr Thr Ile Glu Arg Phe Ser Ser Met
 1860 1865 1870
 Leu Thr Gln Lys Thr Lys Met Lys Gly Leu Leu Glu Ile Leu Ala Ser
 1875 1880 1885
 Ala Ser Glu Tyr Ala Glu Leu Pro Ser Arg Pro Gly Glu Glu Asp Phe
 1890 1895 1900
 Ile Glu Lys Leu Val Arg His Gln Arg Phe Ser Ile Glu Lys Pro Arg
 1905 1910 1915 1920
 Tyr Gly Asp Pro His Val Lys Ala Asn Ala Leu Leu Gln Ala His Phe
 1925 1930 1935
 Ser Arg His Thr Ile Leu Gly Asn Leu Ala Ala Asp Gln Arg Glu Ile
 1940 1945 1950
 Leu Leu Ser Ala His Arg Leu Leu Gln Ala Met Val Asp Val Ile Ser
 1955 1960 1965
 Ser Asn Gly Trp Leu Thr Leu Ala Leu Asn Ala Met Glu Leu Ser Gln
 1970 1975 1980
 Met Val Thr Gln Gly Met Trp Asp Arg Asp Ser Val Leu Leu Gln Leu
 1985 1990 1995 2000
 Pro His Phe Thr Lys Glu Leu Ala Arg Arg Cys Gln Glu Asn Glu Gly
 2005 2010 2015
 Arg Pro Ile Glu Ser Ile Phe Asp Leu Ala Glu Met Ser Ile Asp Glu
 2020 2025 2030
 Met Arg Asp Leu Leu Gln Gln Ser Asn Pro Gln Leu Gln Asp Ile Ile
 2035 2040 2045
 Glu Phe Phe Lys Arg Phe Pro Asn Val Asp Met Ala Tyr Glu Val Arg
 2050 2055 2060
 Glu Gly Asp Asp Ile Arg Ala Gly Asp Asn Val Thr Val Gln Val Thr
 2065 2070 2075 2080
 Leu Glu Arg Asp Met Thr Asn Leu Pro Ser Glu Val Gly Pro Val His
 2085 2090 2095
 Ala Pro Arg Tyr Pro Lys Pro Lys Glu Gly Trp Trp Leu Val Ile
 2100 2105 2110
 Gly Asp Ser Ser Thr Asn Gln Leu Leu Ala Ile Lys Arg Val Ala Leu
 2115 2120 2125
 Gln Lys Arg Ala Arg Val Lys Leu Glu Phe Thr Ala Ala Ser Glu Ala
 2130 2135 2140
 Gly Arg Lys Glu Tyr Met Ile Tyr Leu Met Ser Asp Ser Tyr Leu Gly
 2145 2150 2155 2160
 Cys Asp Gln Glu Tyr Glu Phe Thr Val Asp Val Met Asp Ala Gly Gly
 2165 2170 2175
 Asp

<210> 65

<211> 181

<212> PRT

<213> Oryza sativa

<220>

<221> PEPTIDE

<222> (0)...(0)

<223> line 1C-056-07 polypeptide sequence

<400> 65

Met Val Gly Cys Leu Ala Thr Ser Thr Lys Thr Ile Leu Ala Glu Ser
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 Leu Leu His Gly Tyr Lys Phe Asp Ser Ile Asn Thr Val Tyr Tyr Met
 20 25 30
 Ala Pro Phe Ala Thr Met Ile Leu Ala Leu Pro Ala Val Leu Leu Glu
 35 40 45

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Gly Gly Gly Val Val Thr Trp Phe Tyr Thr His Asp Ser Ile Ala Ser
 50 55 60
 Ala Leu Val Ile Ile Ile Gly Ser Gly Val Leu Ala Phe Cys Leu Asn
 65 70 75 80
 Phe Ser Ile Phe Tyr Val Ile His Ser Thr Thr Ala Val Thr Phe Asn
 85 90 95
 Val Ala Gly Asn Leu Lys Val Ala Val Ala Val Leu Val Ser Trp Leu
 100 105 110
 Ile Phe Arg Asn Pro Ile Ser Pro Met Asn Ala Ile Gly Cys Ala Ile
 115 120 125
 Thr Leu Val Gly Cys Thr Phe Tyr Gly Tyr Val Arg His Leu Ile Ser
 130 135 140
 Gln Gln Gln Ala Val Ala Pro Gly Thr Gly Ser Pro Thr Thr Ser Gln
 145 150 155 160
 Thr Asn Ser Pro Arg Ser Arg Met Glu Met Leu Pro Leu Val Gly Asp
 165 170 175
 Lys Gln Glu Lys Val
 180

<210> 66
 <211> 793
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1C-100-32 polypeptide sequence

<400> 66
 Met Glu Met Glu Met Glu Asp Asn Lys Ala Pro Ser Pro Pro Ser Pro
 1 5 10 15
 Met Glu Ser Asp Val Ala Glu Glu Lys Arg Lys Arg Glu Asp Asp Ala
 20 25 30
 Ser Ser Ser Ala Val Leu Ala Ala Ala Asn Asn Thr Gly Gly Ala Gln
 35 40 45
 His Pro Met Trp Lys Thr Ser Leu Cys Ser Phe Phe Arg Arg Arg Ala
 50 55 60
 Ala Ser Ser Ala Asp Gly Cys Ser His Gly Asp Ser Cys Arg Tyr Ala
 65 70 75 80
 His Ser Glu Glu Glu Leu Arg Pro Arg Pro Asp Gly Thr Trp Asp Pro
 85 90 95
 Thr Ser Asp Arg Ala Lys Lys Leu Arg Lys Val Ala Ala Asp Glu Val
 100 105 110
 Glu Glu Glu Val Val Thr Ile Asp Asp Lys Ala Leu Asp Lys Cys Leu
 115 120 125
 Val Gly Leu Pro Arg Gly Trp Ala Asn Asp Arg Leu Lys Thr Phe Leu
 130 135 140
 Gln Asp Lys Ala Arg Thr Asn Tyr Ser Ser Ile Leu Pro Pro Ala Leu
 145 150 155 160
 Leu Leu Gly Ile Ser Tyr Ala Thr Ala Lys Lys Lys Lys Gly Met Thr
 165 170 175
 Val Gly Phe Val Thr Phe Glu Asn Ile Glu Gln Leu Lys Asn Ala Ile
 180 185 190
 Glu Val Leu Thr Glu Asn Gln Ser Gly Gly Lys Glu Ile Lys Ile Ala
 195 200 205
 Asp Ala Asn Arg Arg Ser His Gln Lys Leu His Thr Glu Lys Pro Val
 210 215 220
 Ser Asp Asn Gly Val Thr Thr Glu Asn Gly Thr Ser Val Asp Val Pro
 225 230 235 240
 Pro Gly Glu Thr Ser Ala Pro Glu Ala Ala Ile Ser Asn Lys Lys Ser
 245 250 255

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Arg | Asp | Ala | Val | Thr | Pro | Leu | Ala | His | Met | Ser | Tyr | Asn | Asp | Gln |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Leu | Glu | His | Lys | Asn | Asn | Ser | Val | Ala | Gln | Ile | Leu | Lys | Arg | Leu | Thr |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Arg | Asn | Ala | Arg | Lys | Ala | Cys | Pro | Thr | Gly | Ile | Pro | Leu | Pro | Asp | Trp |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Val | Phe | Lys | Ser | Lys | Glu | Ile | Gly | Gly | Leu | Pro | Cys | Lys | Leu | Glu | Gly |
| 305 | | | | | 310 | | | | | 315 | | | | 320 | |
| Ile | Leu | Glu | Ser | Pro | Val | Ile | Asn | Gly | Tyr | Arg | Asn | Lys | Cys | Glu | Phe |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Ser | Val | Gly | Phe | Ser | Leu | Glu | Gly | Lys | Lys | Thr | Val | Gly | Phe | Met | Leu |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Gly | Asn | Phe | Ser | Thr | Asp | Met | Ile | Asp | Lys | Thr | Lys | Ser | Arg | Glu | Gly |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Val | Thr | Ala | Val | Glu | Glu | Pro | Val | Asp | Cys | Pro | Asn | Val | Ser | Glu | Ile |
| | | | | | | 375 | | | | | 380 | | | | |
| Ser | Cys | Lys | Tyr | Ala | Leu | Met | Phe | Gln | Asp | Phe | Leu | Gln | Ser | Ser | Ser |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Leu | Pro | Val | Trp | Asn | Arg | Val | Asn | Asn | Cys | Gly | Phe | Trp | Arg | Gln | Phe |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Thr | Val | Arg | Glu | Gly | Arg | Cys | Arg | Ala | Gln | Ala | Val | Ala | Gln | Asn | Ala |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Glu | Thr | Gln | Ile | Ser | Glu | Val | Met | Leu | Ile | Val | Gln | Val | Cys | Ser | Thr |
| | | 435 | | | | | 440 | | | | | 445 | | | |
| Gly | Val | Asp | Asp | Ala | Val | Met | Lys | Asp | Glu | Phe | Asp | Lys | Leu | Thr | Val |
| | 450 | | | | | 455 | | | | | 460 | | | | |
| Ala | Leu | Gln | Gln | Gly | Ala | Ala | Thr | Cys | Ser | Pro | Pro | Leu | Pro | Leu | Thr |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| Thr | Ile | Val | Val | Gln | Asp | His | Lys | Gly | Ile | Ser | Asn | Ala | Ala | Pro | Ala |
| | | | | 485 | | | | | 490 | | | | | 495 | |
| Asp | Cys | Pro | Leu | Ile | Pro | Leu | Leu | Val | Pro | Lys | Val | Asp | Gln | Ser | Glu |
| | | | 500 | | | | | 505 | | | | | 510 | | |
| Gly | Thr | Val | Asp | Lys | Thr | Arg | Ile | His | Asp | His | Ile | Gly | Asn | Leu | Trp |
| | | 515 | | | | | 520 | | | | | 525 | | | |
| Phe | Ser | Ile | Ser | Pro | Thr | Ala | Phe | Phe | Gln | Val | Asn | Thr | Leu | Ala | Ala |
| | 530 | | | | | 535 | | | | | 540 | | | | |
| Glu | Arg | Leu | Tyr | Thr | Leu | Ala | Gly | Asp | Trp | Ala | Asn | Leu | Asn | Ser | Gly |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| Thr | Leu | Leu | Phe | Asp | Val | Cys | Cys | Gly | Thr | Gly | Thr | Ile | Gly | Leu | Thr |
| | | | | 565 | | | | | 570 | | | | | 575 | |
| Leu | Ala | His | Arg | Val | Gly | Met | Val | Val | Gly | Ile | Glu | Met | Asn | Glu | Ser |
| | | | 580 | | | | | 585 | | | | | 590 | | |
| Ala | Val | Ser | Asp | Ala | Glu | Arg | Asn | Ala | Leu | Ile | Asn | Gly | Val | Ser | Asn |
| | | 595 | | | | | 600 | | | | | 605 | | | |
| Cys | Arg | Phe | Val | Cys | Gly | Lys | Ala | Glu | Asp | Val | Met | Gly | Ser | Leu | Leu |
| | 610 | | | | | 615 | | | | | 620 | | | | |
| Thr | Glu | Tyr | Leu | Gly | Ser | Pro | Gln | Gln | Asp | Ile | Pro | Val | Ser | Glu | Gly |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 |
| Ala | Val | Ser | Gly | Thr | Val | Lys | Asp | Glu | Glu | Val | Ile | Asp | Ser | Ser | Lys |
| | | | | 645 | | | | | 650 | | | | | 655 | |
| Asn | Ser | Gly | Glu | Asn | Leu | Asp | Ser | Ser | Met | Gln | Lys | Asn | Asp | Asn | Gly |
| | | | 660 | | | | | 665 | | | | | 670 | | |
| Lys | Ser | Gln | Gln | Leu | Gly | Asp | Ala | Pro | Ala | Asp | Ser | Ser | Ser | Ser | Ala |
| | | 675 | | | | | 680 | | | | | 685 | | | |
| Ile | Asp | Glu | Ile | Lys | Gly | Asn | Ser | Asn | Asp | Arg | Val | Gly | Asn | Gly | Leu |
| | 690 | | | | | 695 | | | | | 700 | | | | |
| Glu | Gly | Ser | His | Asp | Glu | Tyr | Asn | Glu | Val | Ala | Gly | Glu | Asp | Ile | His |
| 705 | | | | | 710 | | | | | 715 | | | | | 720 |
| Gly | Glu | Ala | Ser | Leu | Ile | Asn | Glu | Ser | Val | Asp | Leu | Lys | Val | Ser | Asp |
| | | | | 725 | | | | | 730 | | | | | 735 | |
| Cys | Leu | Glu | Asp | Arg | Lys | Thr | Ser | Asp | Asp | Gly | Ser | Ser | Ile | Ser | Asn |
| | | | 740 | | | | | 745 | | | | | 750 | | |
| Asn | Asp | Val | Thr | Ala | Ala | Thr | Ala | Cys | Gln | Phe | Glu | Asp | Ile | Val | Ala |

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Ile Val Asp Pro Pro Arg Val Gly Leu His Pro Thr Val Asn Pro Lys
 755 760 765
 770 775 780
 Arg Gly Gln Gly Val Pro Val Phe Ile
 785 790

<210> 67
 <211> 143
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1C-142-27 polypeptide sequence

<400> 67
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 20 25 30
 Phe Val Val Tyr Lys Ile Asp Glu Arg Ser Arg Ala Val Leu Val Asp
 35 40 45
 Lys Val Gly Gly Pro Gly Glu Gly Tyr Glu Glu Leu Val Ala Ala Leu
 50 55 60
 Pro Thr Asp Asp Cys Arg Tyr Ala Val Phe Asp Phe Asp Phe Val Thr
 65 70 75 80
 Val Asp Asn Cys Gln Lys Ser Lys Ile Phe Phe Ile Ala Trp Ser Pro
 85 90 95
 Thr Ala Ser Arg Ile Arg Ala Lys Ile Leu Tyr Ala Thr Ser Lys Gln
 100 105 110
 Gly Leu Arg Arg Val Leu Asp Gly Val His Tyr Glu Val Gln Ala Thr
 115 120 125
 Asp Ser Ser Glu Met Gly Tyr Asp Val Ile Arg Gly Arg Ala Gln
 130 135 140

<210> 68
 <211> 452
 <212> PRT
 <213> Oryza sativa

<220>
 <221> PEPTIDE
 <222> (0)...(0)
 <223> line 1C-140-04 polypeptide sequence

<400> 68
 Met Ala Thr Gly Glu Leu Ala Leu Val Ser Ser Leu Phe Ile Val Val
 1 5 10
 Val Phe Leu Leu Leu Gly Ala Val Ala Arg Glu Ala Ser Ala Leu Thr
 20 25 30
 Arg His Asp Phe Pro Glu Gly Phe Val Phe Gly Ala Gly Ser Ser Ala
 35 40 45
 Phe Gln Val Glu Gly Ala Ala Glu Asp Gly Arg Lys Pro Ser Ile
 50 55 60
 Trp Asp Thr Phe Ile His Gln Gly Tyr Met Pro Asp Gly Ser Asn Ala
 65 70 75 80
 Asp Val Ser Ala Asp Gln Tyr His His Tyr Lys Glu Asp Val Lys Leu
 85 90 95
 Met Tyr Asp Met Gly Leu Asp Ala Tyr Arg Phe Ser Ile Ala Trp Pro
 100 105 110

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Arg Leu Ile Pro Asp Gly Arg Gly Glu Ile Asn Pro Lys Gly Leu Glu
 115 120 125
 Tyr Tyr Asn Asn Leu Ile Asp Glu Leu Ile Met His Gly Ile Gln Pro
 130 135 140
 His Val Thr Ile Tyr His Phe Asp Leu Pro Gln Ala Leu Gln Asp Glu
 145 150 155 160
 Tyr Gly Gly Ile Leu Ser Pro Arg Phe Ile Glu Asp Tyr Ser Ala Tyr
 165 170 175
 Ala Glu Val Cys Phe Lys Asn Phe Gly Asp Arg Val Lys His Trp Ala
 180 185 190
 Thr Phe Asn Gln Pro Asn Ile Glu Pro Ile Gly Gly Phe Asp Ala Gly
 195 200 205
 Asp Arg Pro Pro Arg Arg Cys Ser Tyr Pro Phe Gly Thr Asn Cys Thr
 210 215 220
 Gly Gly Asp Ser Ser Thr Glu Pro Tyr Ile Val Ala His His Leu Leu
 225 230 235 240
 Leu Ala His Ala Ser Ala Val Ser Ile Tyr Arg Gln Lys Tyr Gln Gln
 245 250 255
 Ala Ile Gln Gly Gly Gln Ile Gly Ile Thr Leu Met Val Arg Trp His
 260 265 270
 Glu Pro Tyr Thr Asp Lys Thr Ala Asp Ala Ala Ala Ile Arg Met
 275 280 285
 Asn Glu Phe His Ile Gly Trp Phe Leu His Pro Leu Val His Gly Asp
 290 295 300
 Tyr Pro Pro Val Met Arg Ser Arg Val Gly Gly Arg Leu Pro Ser Ile
 305 310 315 320
 Thr Ala Ser Asp Ser Glu Lys Ile Arg Gly Ser Phe Asp Phe Ile Gly
 325 330 335
 Ile Asn His Tyr Tyr Val Ile Phe Val Gln Ser Ile Asp Ala Asn Glu
 340 345 350
 Gln Lys Leu Arg Asp Tyr Tyr Ile Asp Ala Gly Val Gln Gly Glu Asp
 355 360 365
 Asp Lys Glu Asn Ile Gln Cys His Ser Trp Ser Leu Gly Lys Val Leu
 370 375 380
 Asn His Leu Lys Leu Glu Tyr Gly Asn Pro Pro Val Met Ile His Glu
 385 390 395 400
 Met Val Ile Gln Ile His Arg Ile Ser Ser Glu Arg Ser Thr Thr Thr
 405 410 415
 Met Thr Ser Asp Arg Ser Ser Cys Arg Ala Thr Trp Lys Leu Cys Ile
 420 425 430
 Cys Pro Tyr Gly Ala Leu Thr Leu Leu Ala Thr Tyr Phe Leu Cys Ala
 435 440 445
 Gly Lys Gly Ser
 450

<210> 69
 <211> 6282
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> misc_feature
 <222> (0)...(0)
 <223> T-DNA sequence
 artificial sequence
 synthetic nucleic acid

<223> synthetic nucleic acid

<400> 69
 gtttaccgcg caatatatcc tgtcaaacac ggatccgagg taccaggtac caggtgagtt 60
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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| ccattcttac | taccacggtg | ctatTTTTTT | tgctatgtgg | ctaattacat | gactaacttg | 120 |
| gggtgctaaa | tcttacaggt | tatatgcagg | ttatatgcag | gtccccggta | ggtcagtccc | 180 |
| ttatgttacg | tcctgtagaa | accccaaccc | gtgaaatcaa | aaaactcgac | ggcctgtggg | 240 |
| cattcagtc | ggatcgcgaa | aactgtggaa | ttgatcagcg | ttggtgggaa | agcgcgttac | 300 |
| aagaaagccg | ggcaattgct | gtgccaggca | gttttaacga | tcagttcgcc | gatgcagata | 360 |
| ttcgtaat | tgccgggcaac | gtctgggtatc | agcgcgaagt | ctttataccg | aaagggttgg | 420 |
| caggccagcg | tatcgtgctg | cgtttcgatg | cggtcactca | ttacggcaaa | gtgtgggtca | 480 |
| ataatcagga | agtgatggag | catcagggcg | gctatacgcc | atgtgaagcc | gatgtcacgc | 540 |
| cgtatgttat | tgccgggaaa | agtgtacgta | tcaccgtttg | tgtgaacaac | gaactgaact | 600 |
| ggcagactat | cccggcgga | atgggtgatta | gcacgaaaa | cggcaagaaa | aagcagtc | 660 |
| acttccatga | tttctttaac | tatgccggaa | tccatcgag | cgtaatgctc | tacaccacgc | 720 |
| cgaacacctg | ggtggacgat | atcaccgtgg | tgacgcatgt | cgcgcaagac | tgtaaccacg | 780 |
| cgtctgttga | ctggcagggtg | gtggccaatg | gtgatgtcag | cgttgaactg | cgatgatgcg | 840 |
| atcaacaggt | ggttgcaact | ggacaaggca | ctagcgggac | tttgcaagt | gtgaatccgc | 900 |
| acctctggca | accgggtgaa | ggttatctct | atgaactgtg | cgtcacagcc | aaaagccaga | 960 |
| cagagtgtga | tatctaccgg | cttcgcgtcg | gcatccggtc | agtggcagtg | aagggccaac | 1020 |
| agttcctgat | taaccacaaa | ccgttctact | ttactggctt | tggtcgtcat | gaagatgcg | 1080 |
| acttacgtgg | caaaggattc | gataacgtgc | tgatggtgca | cgaccacgca | ttaatggact | 1140 |
| ggattggggc | caactcctac | cgtacctcgc | attaccctta | cgctgaagag | atgctcgact | 1200 |
| gggcagatga | acatggcatc | gtggtgattg | atgaaactgc | tgctgtcggc | tttaacctct | 1260 |
| ctttagggcat | tggtttcgaa | gcgggcaaca | agccgaaaga | actgtacagc | gaagaggcag | 1320 |
| tcaacgggga | aacttcgcaa | gcgcacttac | agcgatttaa | agagctgata | gcgcgtgaca | 1380 |
| aaaaccaccc | aagcgtgggtg | atgtggagta | ttgccaacga | accggatacc | cgtccgcaag | 1440 |
| tgacgggaa | tatttcgcca | ctggcggaag | caacgcgtaa | actcgacccg | acgcgtccga | 1500 |
| tcacctgcgt | caatgtaatg | ttctgcgacg | ctcacaccga | taccatcagc | gatctctttg | 1560 |
| atgtgctgtg | cctgaaccgt | tattacggat | ggtatgtcca | aagcggcgat | ttggaaacgg | 1620 |
| caagaagggt | actggaaaaa | gaacttctgg | cctggcagga | gaaactgc | cagccgatta | 1680 |
| tcatacccg | atacggcggtg | gatacggttag | ccggcggtgca | ctcaatgtac | accgacatgt | 1740 |
| ggagtgaaga | gtatcagtg | gcatggctgg | atatgtatca | ccgcgtcttt | gatcgcgtca | 1800 |
| gcgccgctcg | cggtgaacag | gtatggaatt | tcgccgattt | tgccgacctg | caaggcatat | 1860 |
| tgccgcttgg | cggtaaacaag | aaagggtatct | tcactcgcg | ccgcaaaccg | aagtcggcg | 1920 |
| cttttctgct | gcaaaaacgc | tggaactggca | tgaacttcgg | tgaaaaaccg | cagcaggag | 1980 |
| gcaaacaattg | aatcaacaac | tctcttggcg | caccatcgtc | ggctacagcc | tcgggaattg | 2040 |
| ctaccgagct | cgaatttccc | cgatcgttca | aacatttggc | aataaagttt | cttaagattg | 2100 |
| aatcctgttg | ccggtcttgc | gatgattatc | atataatttc | tggtgaatta | cgtaagcat | 2160 |
| gtaataatta | acatgtaatg | catgacgtta | tttatgagat | gggtttttat | gattagagtc | 2220 |
| ccgcaattat | acatttaata | cgcatagaa | aacaaaatat | agcgcgcaaa | ctaggataaa | 2280 |
| ttatcgcgcg | cggtgtcatc | tatgttacta | gatcgggaat | taattcatcg | ataggctagt | 2340 |
| catggtgact | agtgcagcaa | actgcccagc | cgatgcaaac | cgatgcaaac | tgtaacggtt | 2400 |
| aacatgccac | tcacctggaa | cgcaaatgg | ccactagggtg | cgcccgtagt | gtggatttca | 2460 |
| aagagagaga | gagagagaga | gagctaata | cgtaaacgta | aacacagcag | atagcagaga | 2520 |
| tggtgattag | gcaaaacagt | ataaaaagcca | atccaataaa | ctacatttag | cgaagtgc | 2580 |
| tactaatgca | ctaataacga | actgttcttt | tcttaagatc | ggagccagta | atgggtgtc | 2640 |
| agcaggagaa | gcacgtaaac | cttgaaacat | actaagtccc | acagtcgaga | gtaaacgcta | 2700 |
| atcaacacaa | gaaacaacaa | taaaaattgaa | taaacgcgca | tattataagt | gacgaagcgg | 2760 |
| tctcacataa | aacagggcac | acaggttaca | acaacgaggg | ttgtaagccc | attaagcccc | 2820 |
| aaacatcaga | tcaccacaag | caaatgtctc | gaagacacac | gcacacggca | acaggataac | 2880 |
| tccacactgg | cagatcatgg | gatagcagca | gttatcaatc | aggccttgac | acacagaaca | 2940 |
| tcaagcccc | agacgacgac | gactcctcta | gatccccgtc | ggcatctact | ctattccttt | 3000 |
| gcccctcgag | gagtcgtggg | gcgtcggtt | ccactatcgg | cgagtacttc | tacacagcca | 3060 |
| tcggtccgac | cgcccgctct | tctgcggg | atttgtgtac | gcccagacgt | cccggctccg | 3120 |
| gatcggacga | ttgcgtcgca | tcgacctgc | gccaagctg | catcatcgaa | attgccgtca | 3180 |
| accaagctct | gatagagtgt | gtcaagacca | atgcggagca | tatacgccc | gagccgcggc | 3240 |
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| aaccacggcc | tccagaagaa | gatgttggcg | acctcgtatt | gggaatcccc | gaacatcgcc | 3360 |
| tcgctccagt | caatgaccg | tggtatgcgg | ccattgtccg | tcaggacatt | gttgagccg | 3420 |
| aaatccgcgt | gcacgaggtg | ccggacttcg | gggcagtcct | cgcccaag | catcagctca | 3480 |
| tcgagagcct | gcgcgacgga | cgactgacg | gtgtcgtcca | tcacagtttg | ccagtgtac | 3540 |
| acatggggat | cagcaatcgc | gcatatgaaa | tcacgccatg | tagtgtattg | accgattcct | 3600 |
| tgccgtccga | atgggccgaa | cccgtcgtc | tggctaagat | cgccgcagc | gatcgcattc | 3660 |
| atggcctccg | cgaccggctg | cagaacagcg | ggcagttcgg | tttcaggcag | gtcttgcaac | 3720 |
| gtgacacctt | gtgcagggcg | ggagatgcaa | tagtgtaggc | tctcgtgaa | ttccccaatg | 3780 |
| tcaagcactt | ccggaatcgg | gagcgcggcc | gatgcaaggt | gccgataaac | ataacgatct | 3840 |

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| | | | | | | |
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20010-04USA.ST25

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